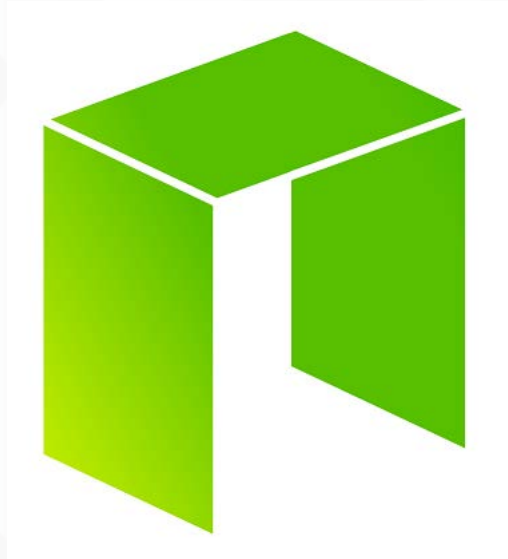


# NEO Smart Economy



**New Era of Economy and Business**



# About me

**Malcolm Lerider**

**Senior R&D Manager**

M.Sc. Industrial Engineering and Management

M.Sc. Computer Science and Engineering

R&D team and community management

Business research and use case integration

Present NEO technology

Email:

[malcolm@neo.org](mailto:malcolm@neo.org)

Discord:

@lerider

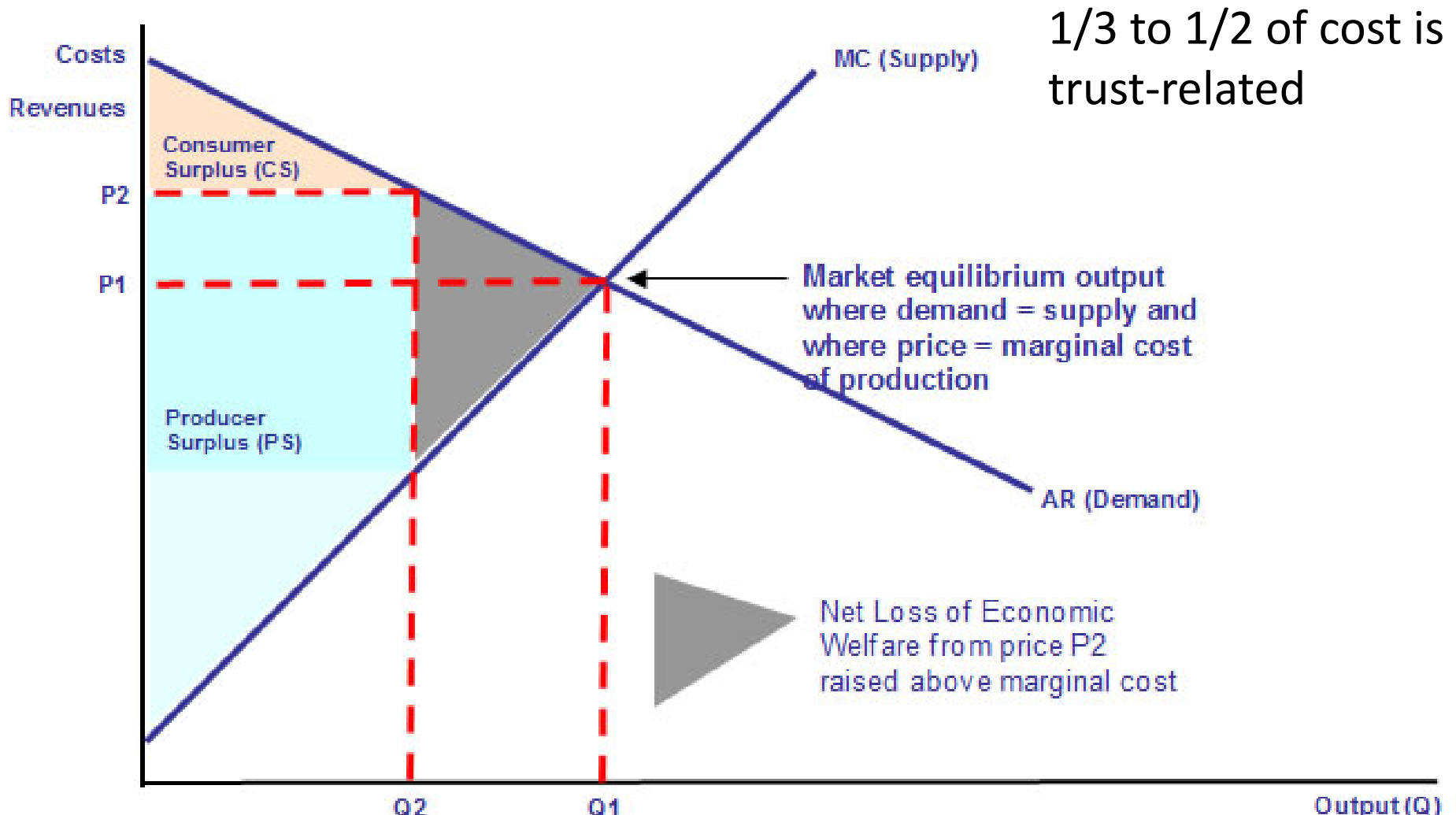




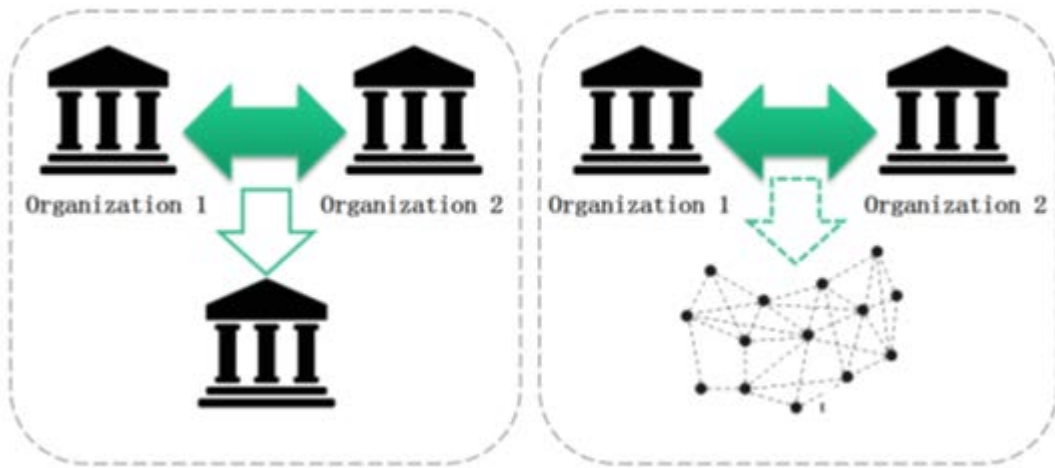
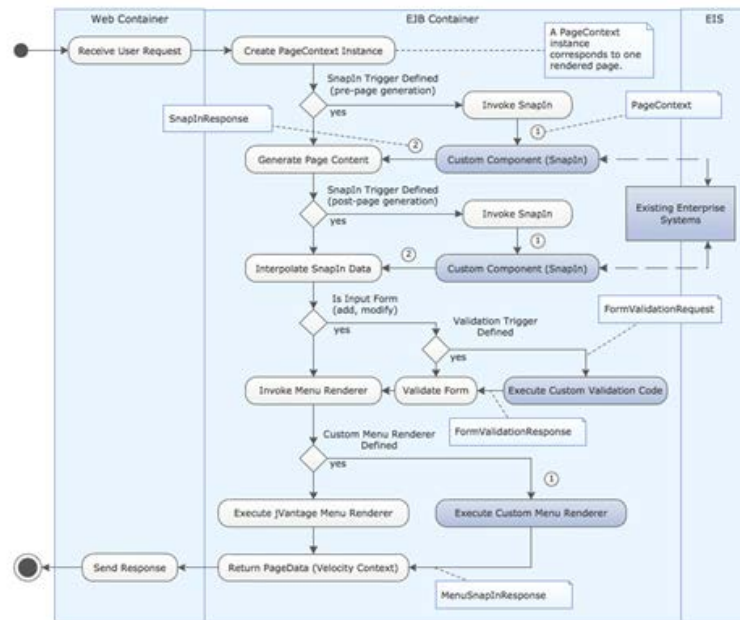
# What Blockchain is good for?



# Potential to increase economic welfare



# How to reduce cost for trust?





# Use case development

Generation	Use case
Generation 1 (2008), Bitcoin	Currency



# Use case development

Generation	Use case
Generation 1 (2008), Bitcoin	Currency
Generation 2 (2014), Ethereum	Unstoppable applications



# Use case development

Generation	Use case
Generation 1 (2008), Bitcoin	Currency
Generation 2 (2014), Ethereum	Unstoppable applications
Generation 3 (2017), NEO	Smart Economy





# What is NEO?



Digital Assets

+



Digital Identity

=

+



Smart Contracts



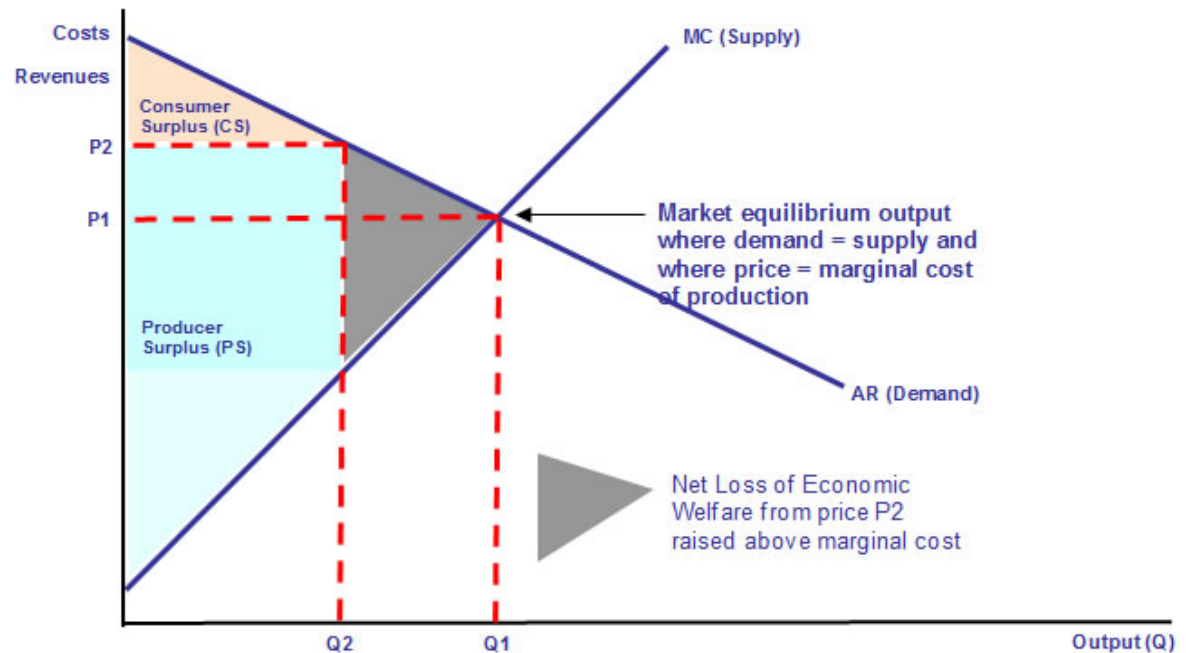
Smart  
Economy

# NEO asks the question: Why not solve the core issue?

Platform built for what we need.

Maximize economic welfare from society perspective by planned infrastructure

This is what NEO sets out to do by providing its public blockchain platform





# NEO is planned infrastructure for large scale dApps

## Mainchain Speeds

NEO: 1000 – 10 000 tx/s  
Bitcoin: 3 - 4 tx/s  
Ethereum: 10 – 20 tx/s

## Smart Contract languages

C#                      Go  
Python                Kotlin  
Java                    ...  
JavaScript

## Perfect Finality

NEO: 1  
BTC: 6+  
ETH: 20+

## Align interests

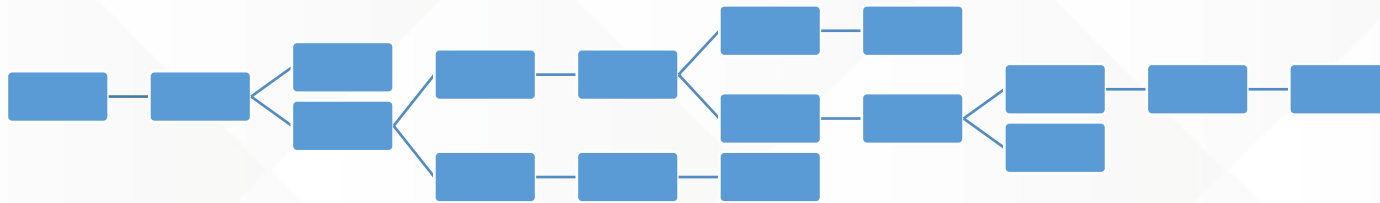
Controlled number of "Bookkeepers"  
Incentivized to increase tx/s  
Easy network upgrades  
Free transactions

... and any extra layers needed



# Perfect Finality

## Consensus algorithm: PoW and PoS



Transaction time = Block time x Confirmations

Example: Transaction time = 15 seconds x 10 confirmations = 150 seconds

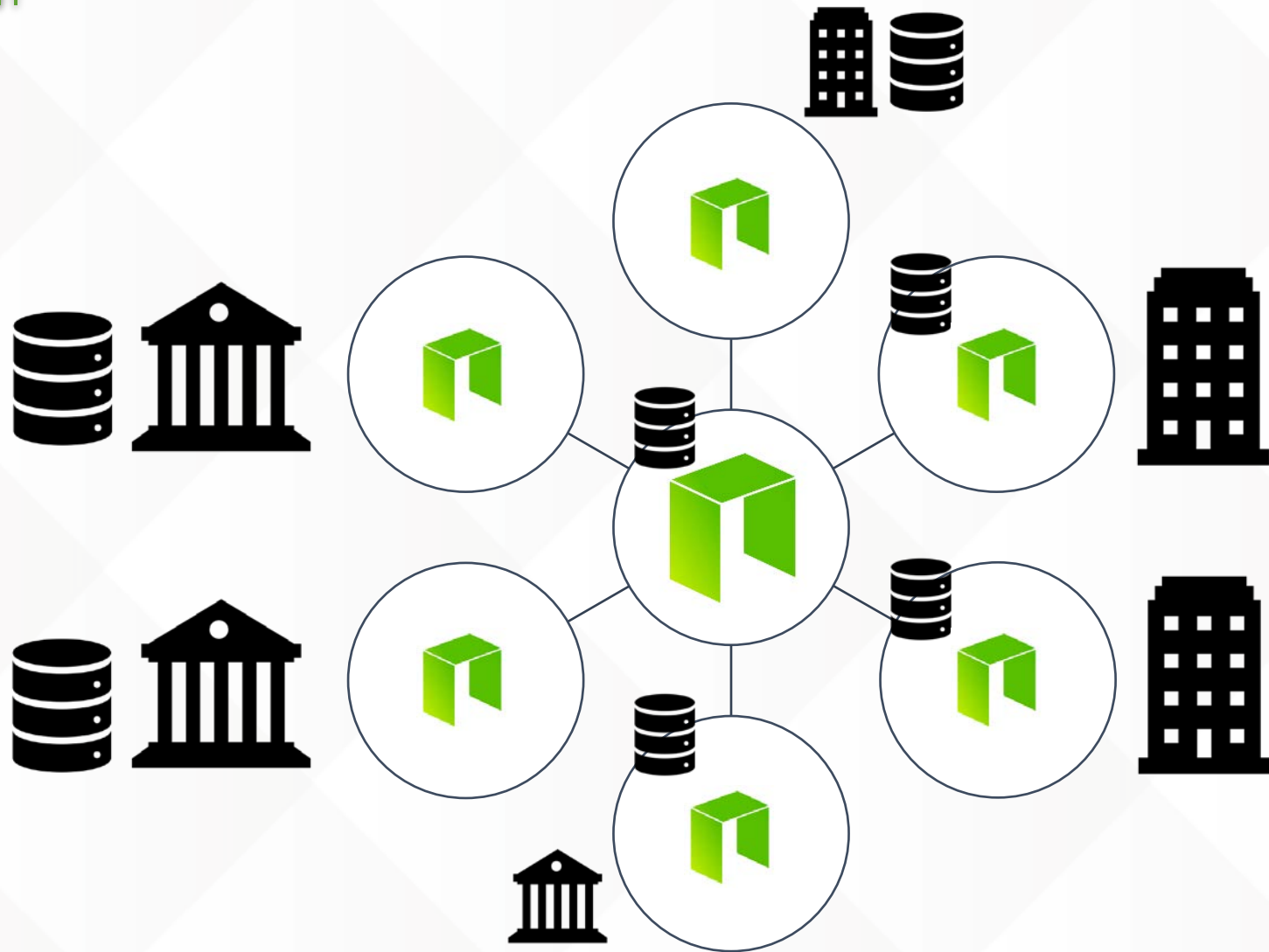
## Consensus algorithm: dBFT



Transaction time = Block time

Example: Transaction time = 15 seconds x 1 confirmation = 15 seconds

# NeoX: Allowing private-public chains



# Status today: Built from scratch

## docs

NEO Documentation

● CSS ★ 139 🍷 214 📄 CC-BY-4.0 Updated 36 minutes ago



## neo

NEO Smart Economy

● C# ★ 2,209 🍷 686 📄 MIT 5 issues need help Updated 2 hours ago



## proposals

NEO Enhancement Proposals

★ 76 🍷 42 📄 CC-BY-4.0 Updated 5 hours ago



## neo-devpack-dotnet















NEO Development Pack

● C# ★ 27 🍷 33 📄 MIT 1 issue needs help Updated 21 hours ago



# Status today:

## MainNet online since 2016-10-17

Endpoint	Type	Latency (ms)	Version	Is It Up? <input type="checkbox"/>
 <a href="http://seed2.neo.org:10332">http://seed2.neo.org:10332</a>	RPC	80	/NEO:2.7.3/	yes
 <a href="http://seed4.neo.org:10332">http://seed4.neo.org:10332</a>	RPC	268	/NEO:2.7.3/	yes
 <a href="http://seed3.neo.org:10332">http://seed3.neo.org:10332</a>	RPC	256	/NEO:2.7.3/	yes
 <a href="http://seed5.neo.org:10332">http://seed5.neo.org:10332</a>	RPC	248	/NEO:2.7.3/	yes
 <a href="http://seed4.aphelion-neo.com:10332">http://seed4.aphelion-neo.com:10332</a>	RPC	408	/NEO:2.7.3/	yes
 <a href="http://seed4.cityofzion.io:8080">http://seed4.cityofzion.io:8080</a>	RPC	283	/NEO:2.7.3/	yes
 <a href="http://seed0.bridgeprotocol.io:10332">http://seed0.bridgeprotocol.io:10332</a>	RPC	204	/NEO:2.7.3/	yes
 <a href="http://seed1.amchart.io:10332">http://seed1.amchart.io:10332</a>	RPC	309	/NEO:2.7.3/	yes
 <a href="http://seed8.concierge.io:10332">http://seed8.concierge.io:10332</a>	RPC	291	/NEO:2.7.3/	yes
 <a href="http://seed3.cityofzion.io:8080">http://seed3.cityofzion.io:8080</a>	RPC	279	/NEO:2.7.3/	yes
 <a href="http://seed7.concierge.io:10332">http://seed7.concierge.io:10332</a>	RPC	187	/NEO:2.7.3/	yes
 <a href="http://seed01.cryptomunki.tech:10332">http://seed01.cryptomunki.tech:10332</a>	RPC	141	/NEO:2.7.3/	yes
 <a href="http://seed6.concierge.io:10332">http://seed6.concierge.io:10332</a>	RPC	1357	/NEO:2.7.3/	yes
 <a href="https://seed2.switcheo.network:10331">https://seed2.switcheo.network:10331</a>	RPC	325	/NEO:2.7.3/	yes
 <a href="https://seed1.switcheo.network:10331">https://seed1.switcheo.network:10331</a>	RPC	328	/NEO:2.7.3/	yes
 <a href="http://seed3.o3node.org:10332">http://seed3.o3node.org:10332</a>	RPC	153	/NEO:2.7.3/	yes



# Status today: Developer support

[Discord.gg/GmT2Z29](https://discord.gg/GmT2Z29)

[docs.neo.org](https://docs.neo.org)

- DEVELOPMENT +
- # dev-general
- # dapps-competitions
- # chinese
- # japanese
- # korean
- # csharp
- # golang
- # js
- # jvm
- # python
- # design

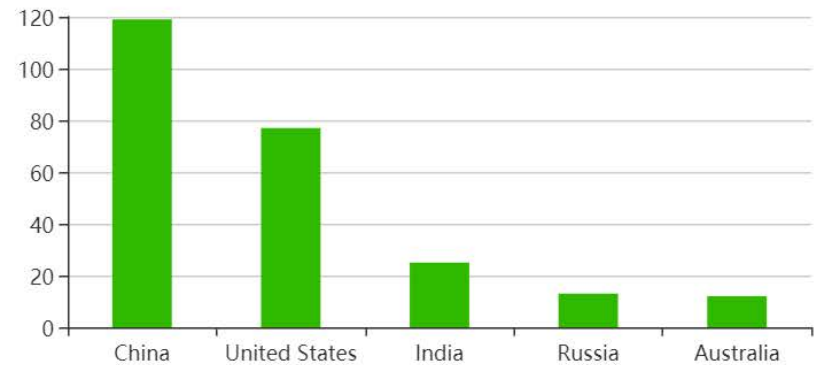
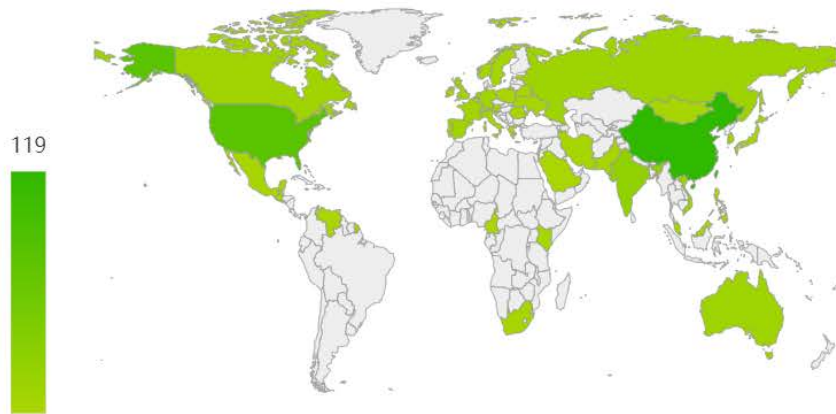
- Home
- Getting Started
- + NEO Node
- Smart Contract
  - Introduction
  - Getting Started (C#)
  - Getting Started (Java)
  - + Getting Started (Python)
  - + Tutorial
- Test
- Whitepaper
- + API Reference
- + Framework
- System Fees
- Document for Exchange Developers
- Contributors

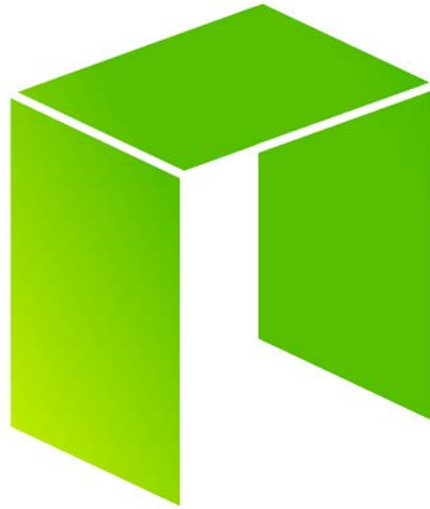
Discord: 11 500  
Reddit: 88 000  
Twitter: 300 000



# Status today: Competition

Total sign-ups : 467 Data collected as of 2018/3/2





[www.neo.org](http://www.neo.org)

[malcolm@neo.org](mailto:malcolm@neo.org)

[github.com/neo-project](https://github.com/neo-project)

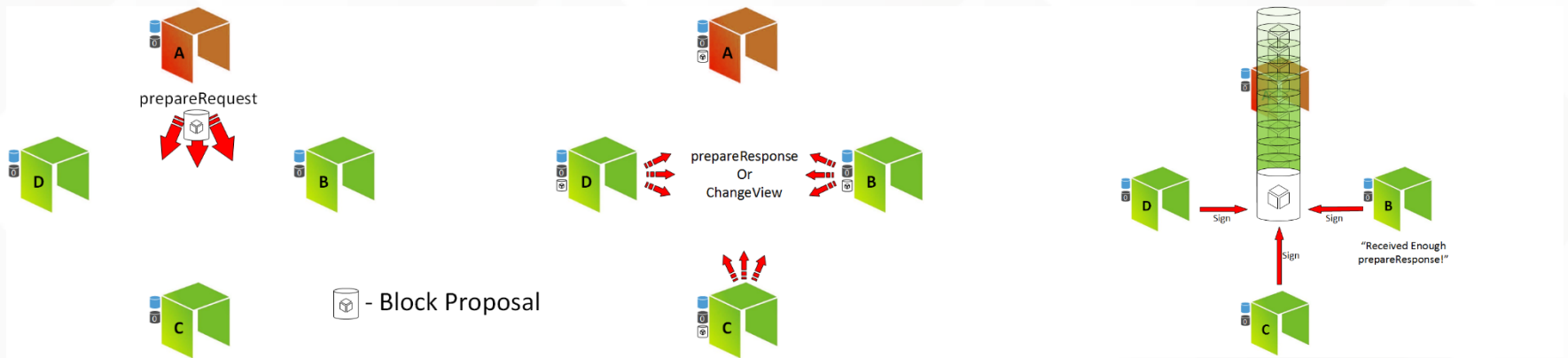
[github.com/CityOfZion](https://github.com/CityOfZion)

[github.com/NewEconoLab](https://github.com/NewEconoLab)

<https://discord.gg/GmT2Z29>

# NEO Consensus Algorithm

## Delegated Byzantine Fault Tolerance (dBFT)



# Aligning Interest

NEO token  
(100m)

gradually release one

GAS token  
(max 100m)



vote for

return sys fee

tx fee

Invoke / deploy Smart Contract (sys fee)

Consensus  
Nodes

dApp  
Wallet

send transaction (tx fee)

