

TOWARDS TOTAL DECENTRALISATION THROUGH NON ADJUDICATIVE METHODS



ASPERA

PATENT PENDING N° 102021000008387

COMPANY PURPOSE

01



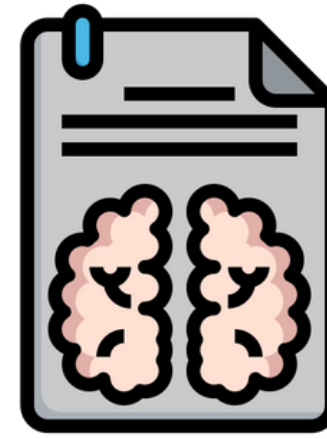
ON-CHAIN CONFLICT
MEDIATION

CONTEXT

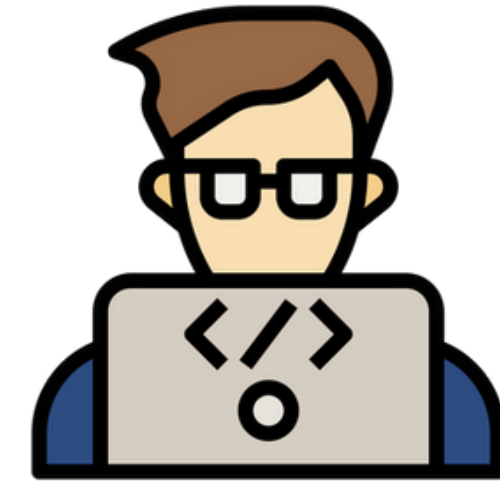
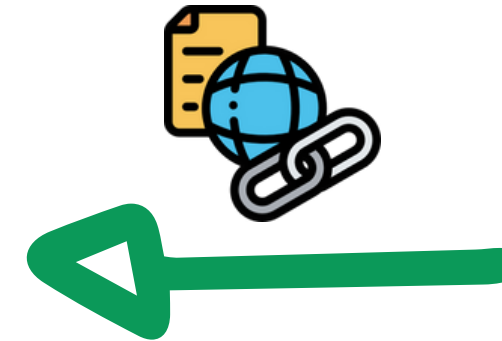
02



TIZIO
(BUYER)



SMART
CONTRACT



CAIO
(DEVELOPER)

Tizio and Caio make a Smart Contract representing the contractual terms of freelance service. Tizio sends the amount of cryptocurrency to the Smart Contract. Then, the link to Caio's website will be automatically released.

CENTRALIZED VS DECENTRALIZED

CENTRALIZED SYSTEM

DECENTRALIZED SYSTEM



DATABASE



BLOCKCHAIN

VS



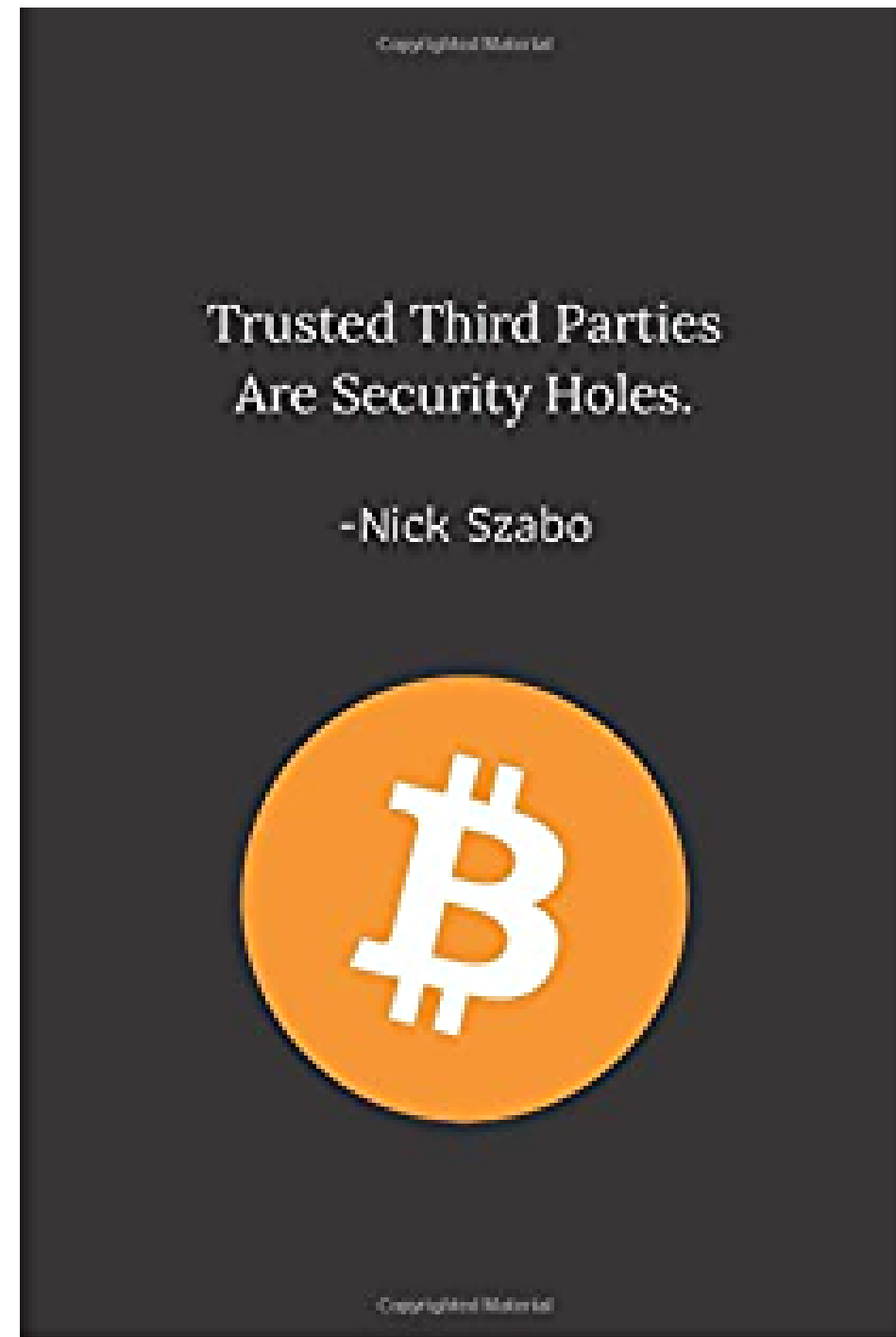
ARBITRATION



MEDIATION

AVOID THE TTP

04



"A TTP that must be trusted by all users of a protocol becomes an arbiter"

Szabo, N. (2001). "Trusted Third Parties are Security Holes",

TRUST

BECAUSE YOU DO NOT HAVE TO TRUST!



Balaji Srinivasan ✓

@balajis



A seemingly paradoxical idea is that greater decentralization may allow greater centralization.

If you can exit at any time, you may be more willing to delegate control on a daily basis to a centralized actor.
Trust because you don't have to trust.

Balaji Srinivasan (ex CTO - Coinbase)

<https://twitter.com/balajis/status/1415655705634238468>



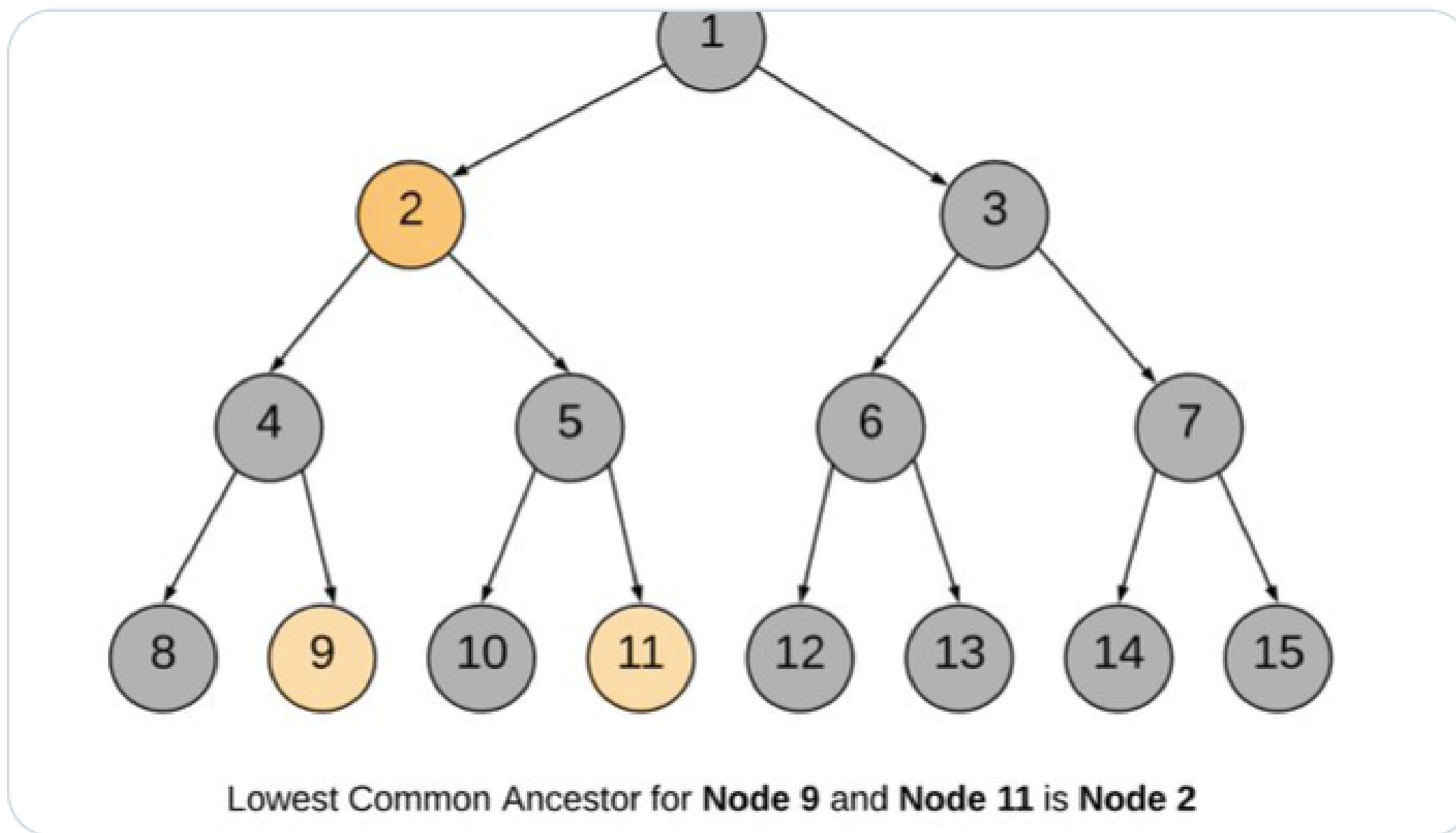
Balaji Srinivasan ✓ @balajis · Jul 15

...

Current social networks don't have great tools for dispute resolution. They're a combination of anarchy (people yelling) and tyranny (arbitrary deplatforming).

06

An alternative approach is a global moderator hierarchy. In the event of dispute, the lowest common ancestor mediates.

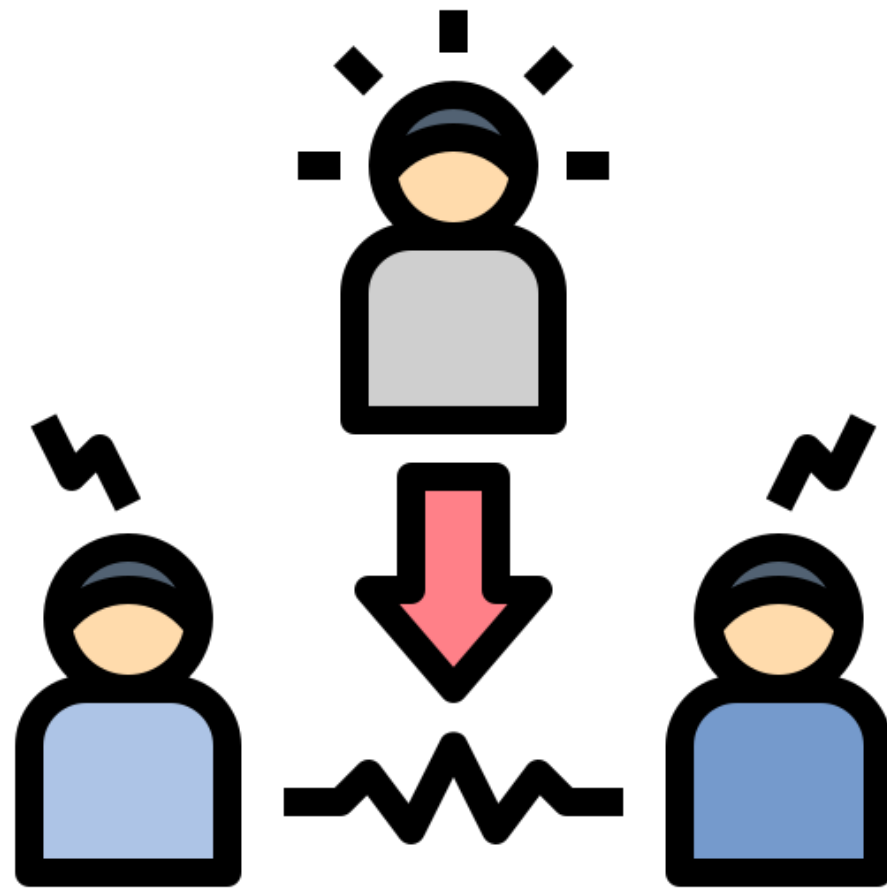


MEDIATION

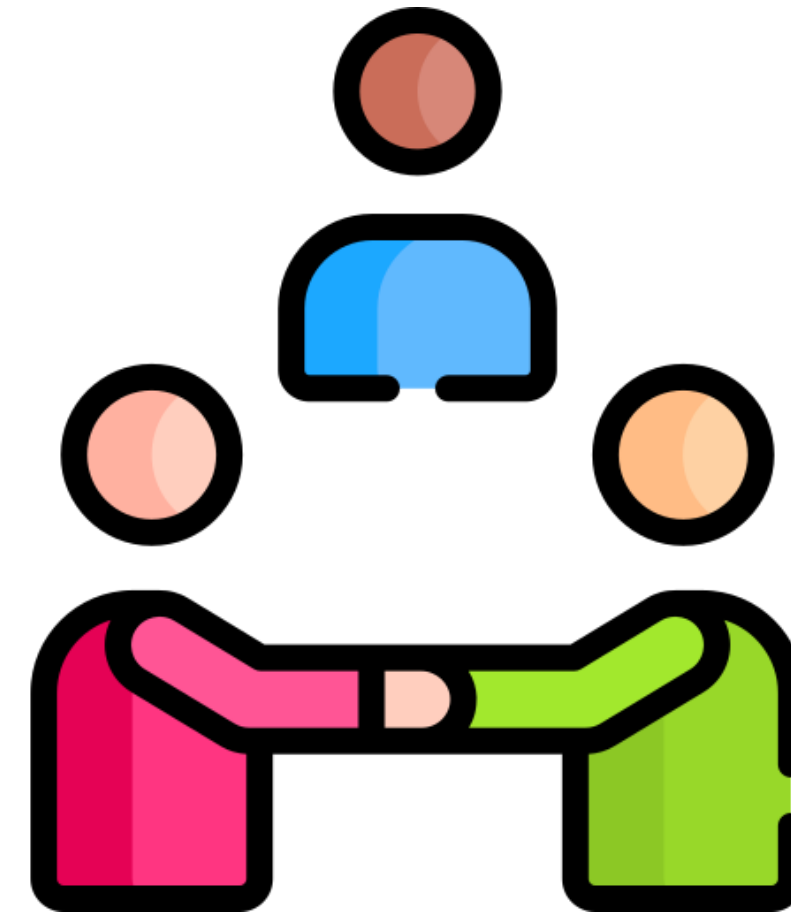
AS A WAY TO ESCAPE FROM "TYRANNY"

ARBITERS / ASPERA

07



VS



TTP MODEL

NO decision-making power for parties. The decision is up to the arbitrator.

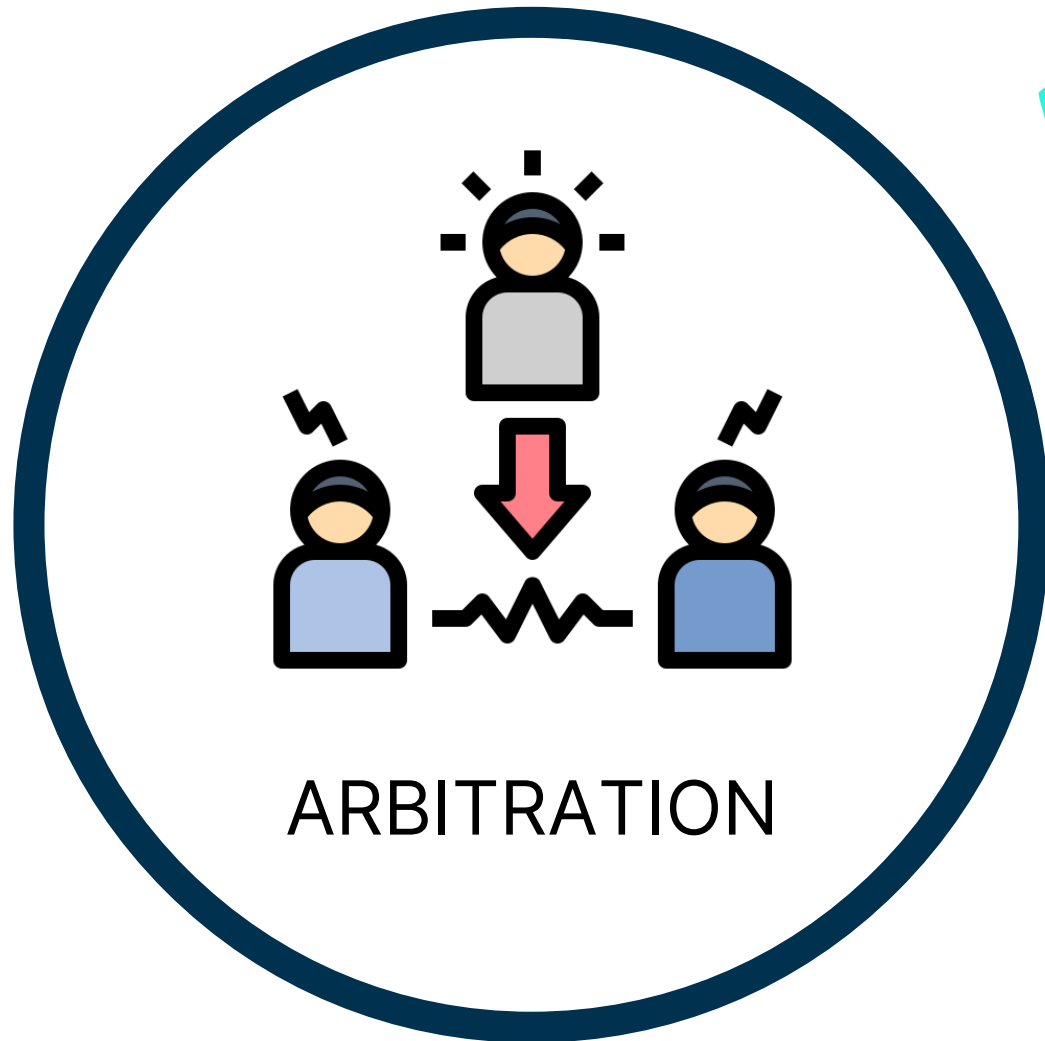
TTP FREE MODEL

TOTAL control over the outcome for parties. The decision is up to the disputants.

ARBITERS / ASPERA



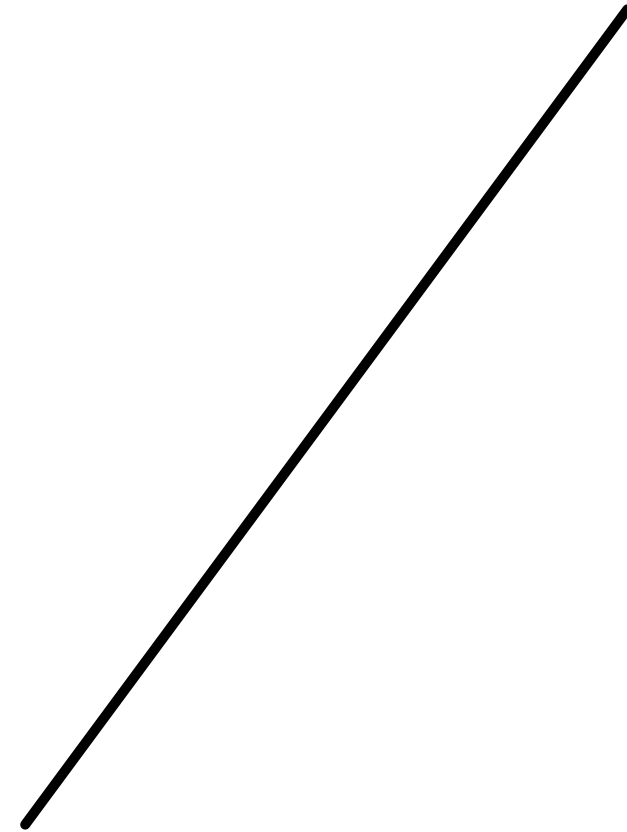
KLEROS



ARBITRATION



ARAGON



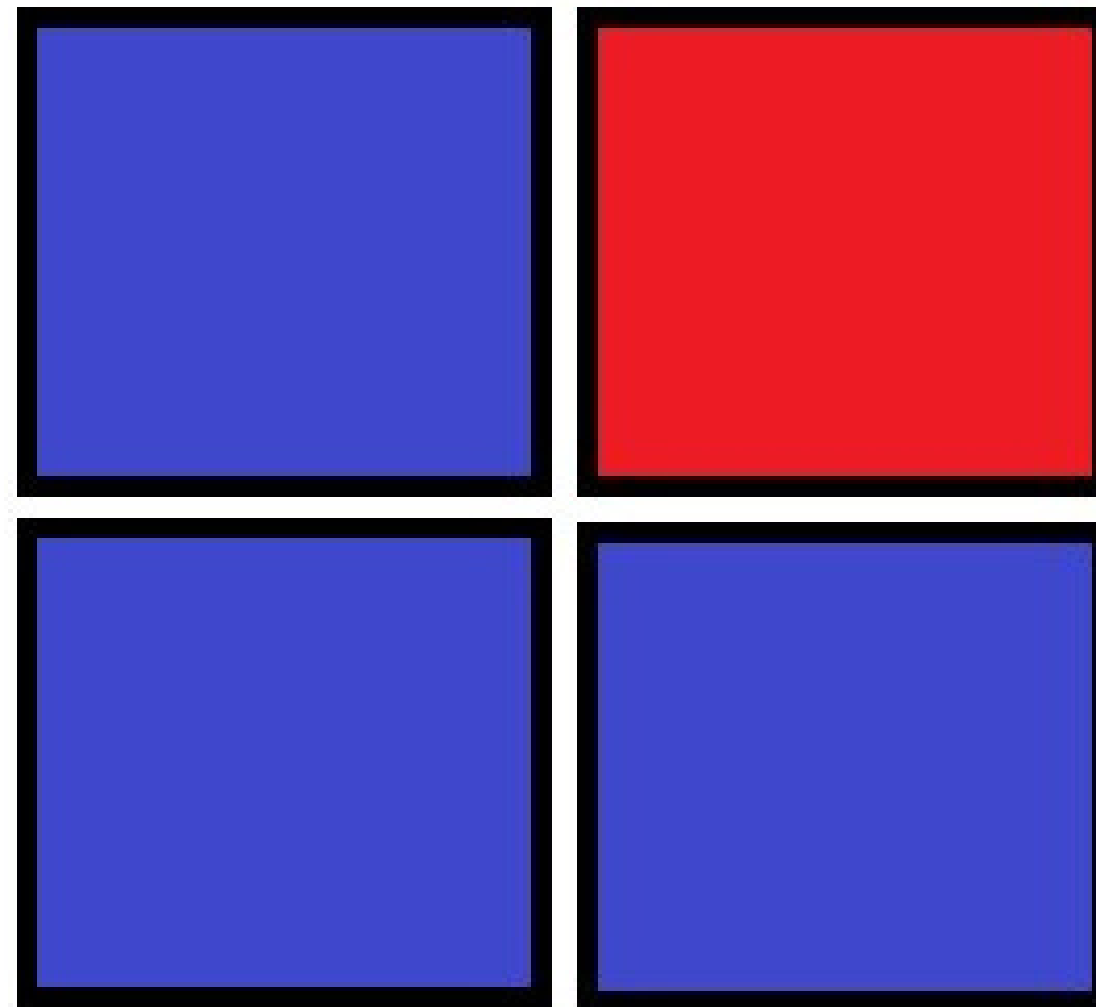
MEDIATION

JUR
JUR



ASPERA

SCHELLING POINT



Cooperating Without Communicating

DECENTRALIZED SECURITY HOLES

1) QUALITY STANDARD

“what is the relevance of such a vote by a random number of anonymous jurors, none of which are lawyers, let alone judges, one may ask”

Emmert, F. (2019). “A Critical Review of the Kleros “Dispute Revolution”

DECENTRALIZED SECURITY HOLES

2) SELFISH DECISION-MAKER

"But what if all or most jurors become lazy because the cases are just not worth any real effort? It seems at least possible that the system would become one of "first impression" voting..."

Emmert, F. (2019). "A Critical Review of the Kleros "Dispute Revolution"

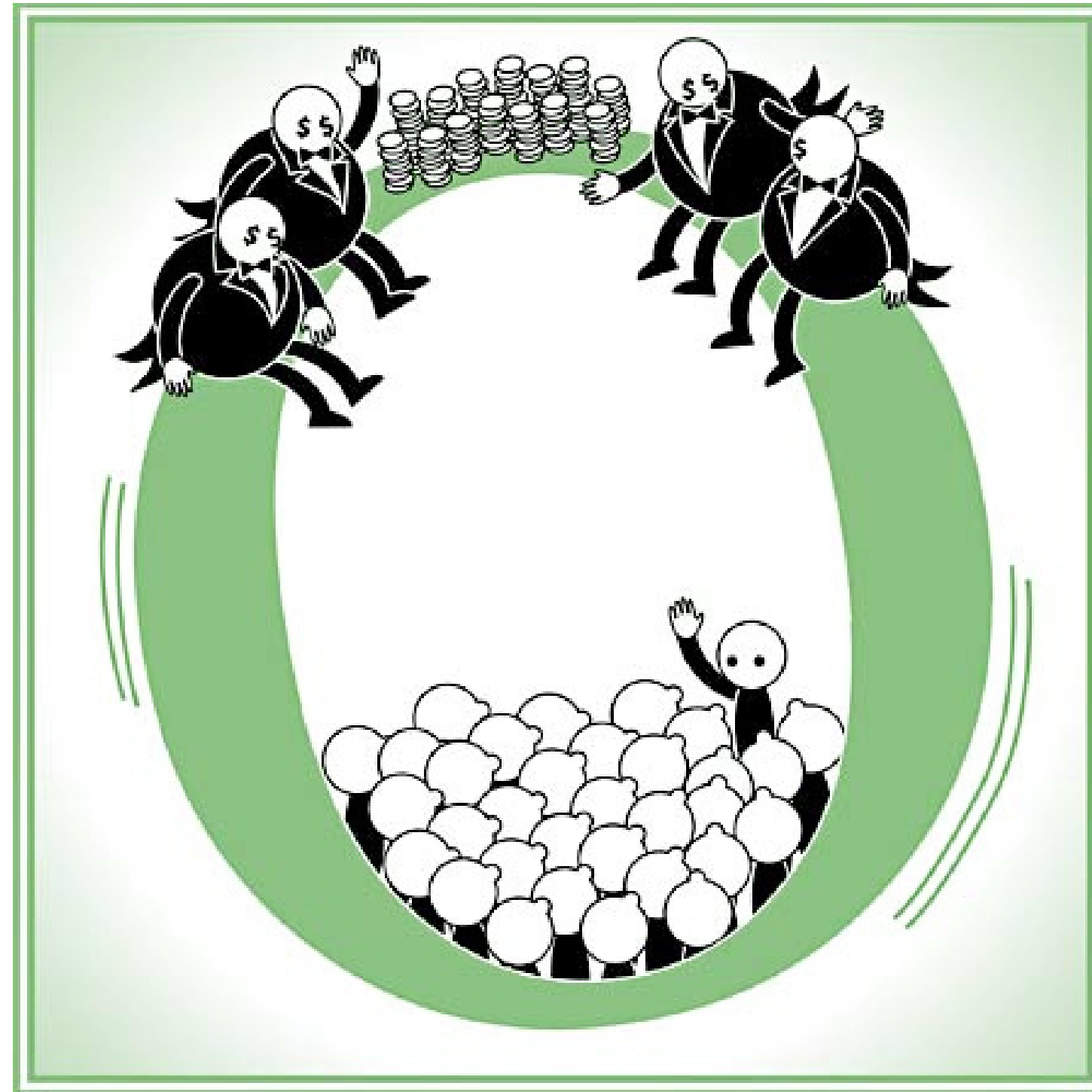
DECENTRALIZED SECURITY HOLES

3) INCOMPLETE JUDGMENT (NO discovery compulsion mechanisms)

"Even in the simplest of disputes, the proverbial "smoking gun" disappears behind a wall of blockchain pseudonymity, presenting major opportunities for deceitful-but not impermissible-omissions".

Buchwald, M. (2020). "Smart Contract Dispute Resolution: The Inescapable Flaws of Blockchain-Based Arbitration"

OLIGARCHY OF RICH MILLENNIALS



ANONYMOUS
ARBITERS

CONFLICTING
PARTIES

OUR SOLUTION

- *Capital Freeze*
- *Chatbot Communication*
- *Preparation of the dataset*
- *Use of ML algorithms to provide a Mediation proposal*



PHASES
1 & 2

Aspera Virtual Camera for Anonymous Mediation



PHASE
3

Arbitration



PHASE
4

VIRTUAL ANONYMOUS CAMERA



Source: https://github.com/alew3/faceit_live3

This is a “face to face” meeting where AI 'masks' the physiognomy and voice of those who connect, making them unrecognizable. Through live deep fakes, it is possible to change the user's face to someone else's in real-time video applications.

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