



Using AI and cryptoeconomics to facilitate citizen deliberations at scale

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Dr George Zarkadakis, CEO Voxiberate
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Topics

The problem of democratic governance

Digital Economy on web 2.0

Digital Economy on web3

Decentralized Autonomous Organizations (DAOs)

Voxiberate: introducing participatory democracy in DAOs and web3

Democratic governance for a human-centric digital future



Different democracies: Athens vs. Washington



Consensus is direct



Consensus is delegated



A tipping point for (liberal) democracy

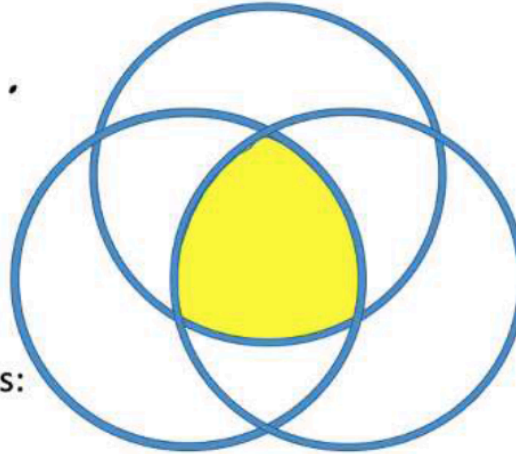
Last 50 years...

PRODUCTIVITY
BETTER, but worrisome

Up slower than before:
2-3%/yr, not 3-4%

EQUITY
WORSE

CEO/av. worker salaries:
from 20 to 361



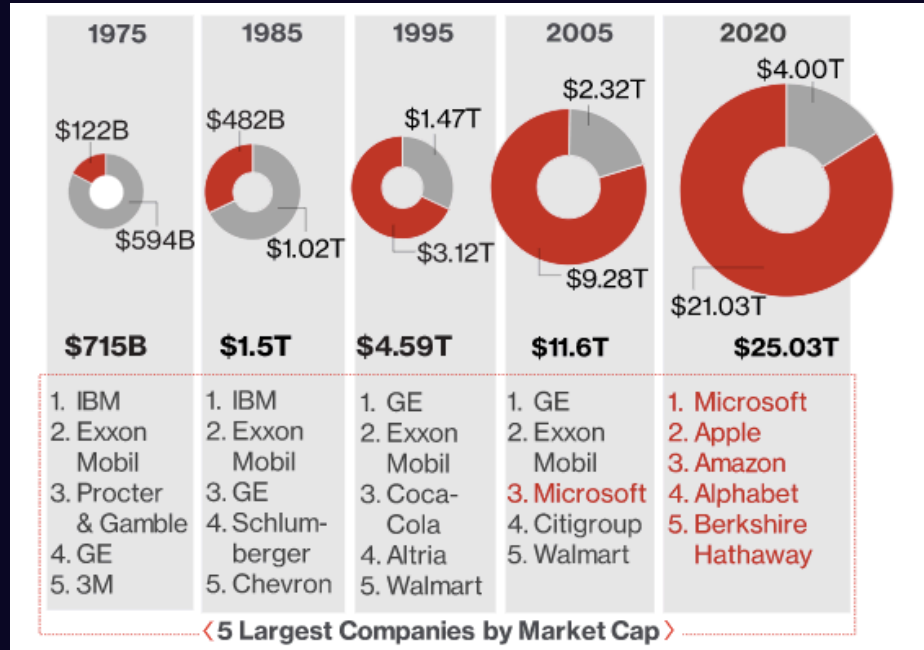
TRUST
WORSE

Trust "most of time:"
from 80% down to 20%



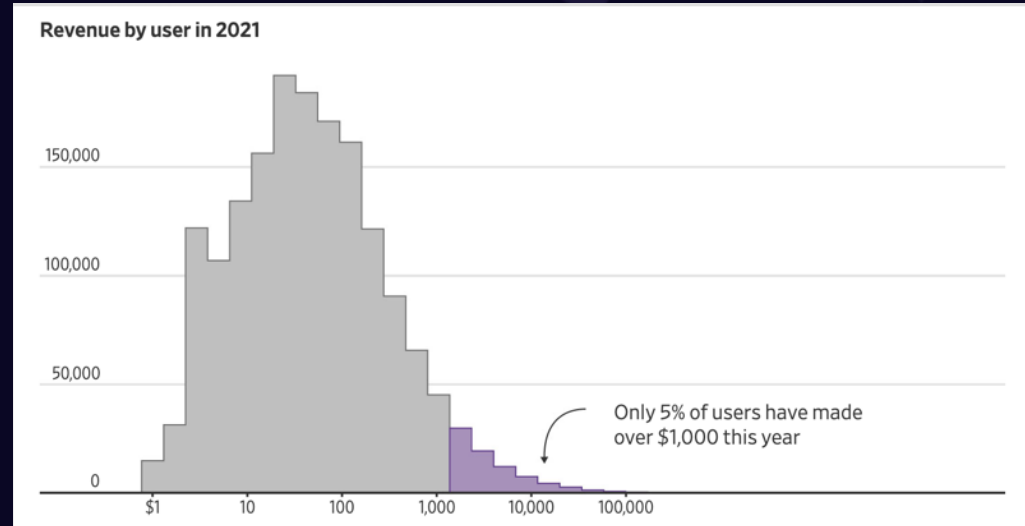
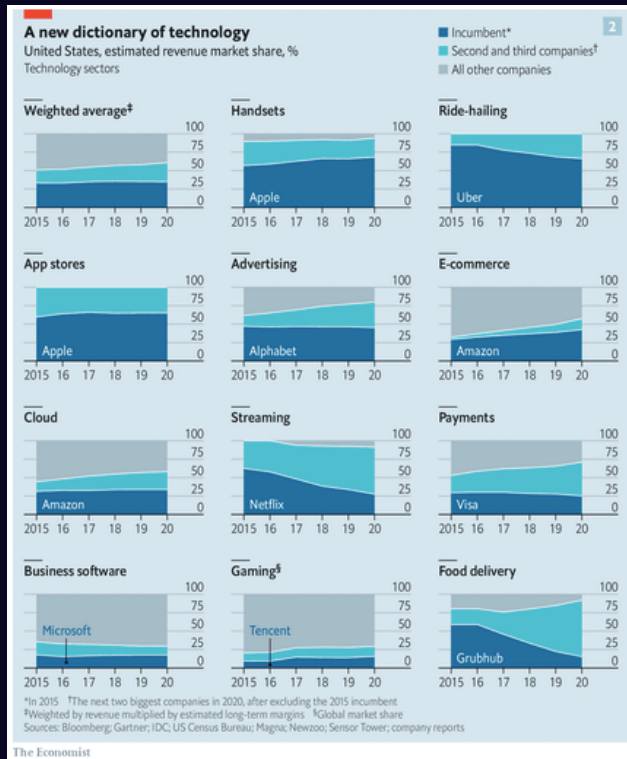
The digital economy on web 2.0

from tangible to intangible assets: data, algorithms, knowledge, creativity



The digital economy on web 2.0

Winner-take-all oligopolies and user exploitation



Twitch user monetization

The evolution of the web

Web 1.0: READ

Web 2.0: READ/ WRITE

Web 3: READ/WRITE/ OWN



Crypto 101: who would you trust with your money?



Regulated agent

Vs.

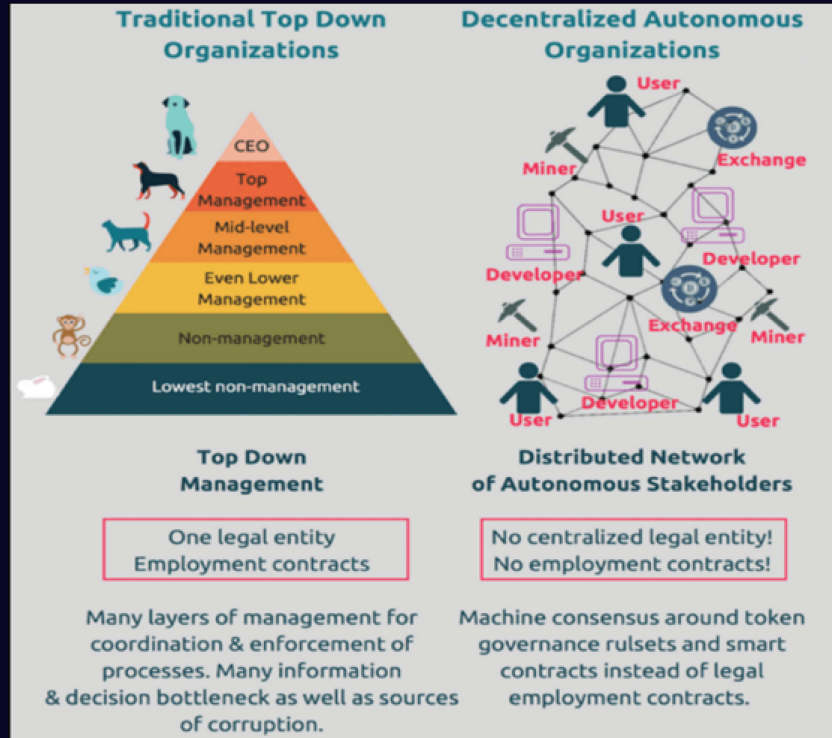


The demos

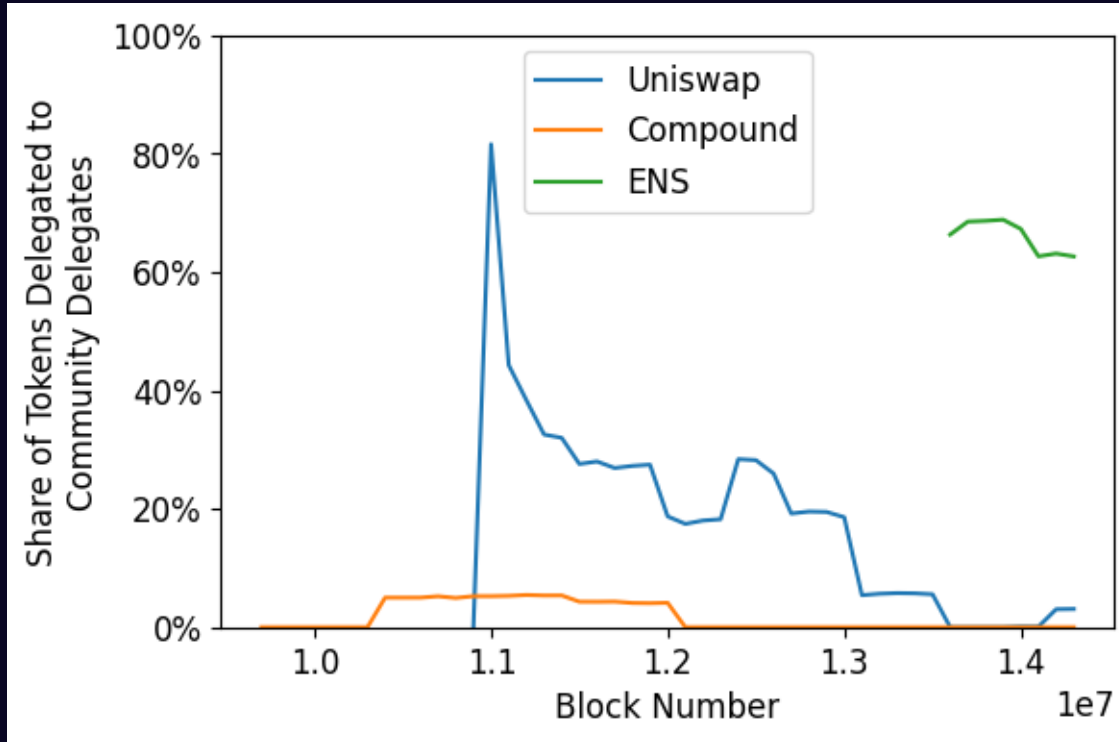


Decentralized Autonomous Organizations (DAOs)

Democratic governance on web3



The web3 “governance paradox”: DAOs are plutocracies



Share of delegated tokens controlled by community delegates (ie delegates who receive <50% of their votes from a single address)

From: *Fritsch R et al, “Analyzing Voting Power in decentralized Governance: who controls DAOs”*



Lack of participatory democracy on DAOs: Existing chat platforms are unfit-for-purpose



It's impossible for communities to deliberate on these platforms...and that is why the "90-9-1" inequality problem in online networks persists on web3

*Source: [J Nielsen. "The 90-9-1 participation inequality rule in social media and online communities"](#)



Chat vs. Deliberation

Messaging Platforms



Chat: Informal, unstructured, purposeless, can easily lead to polarization

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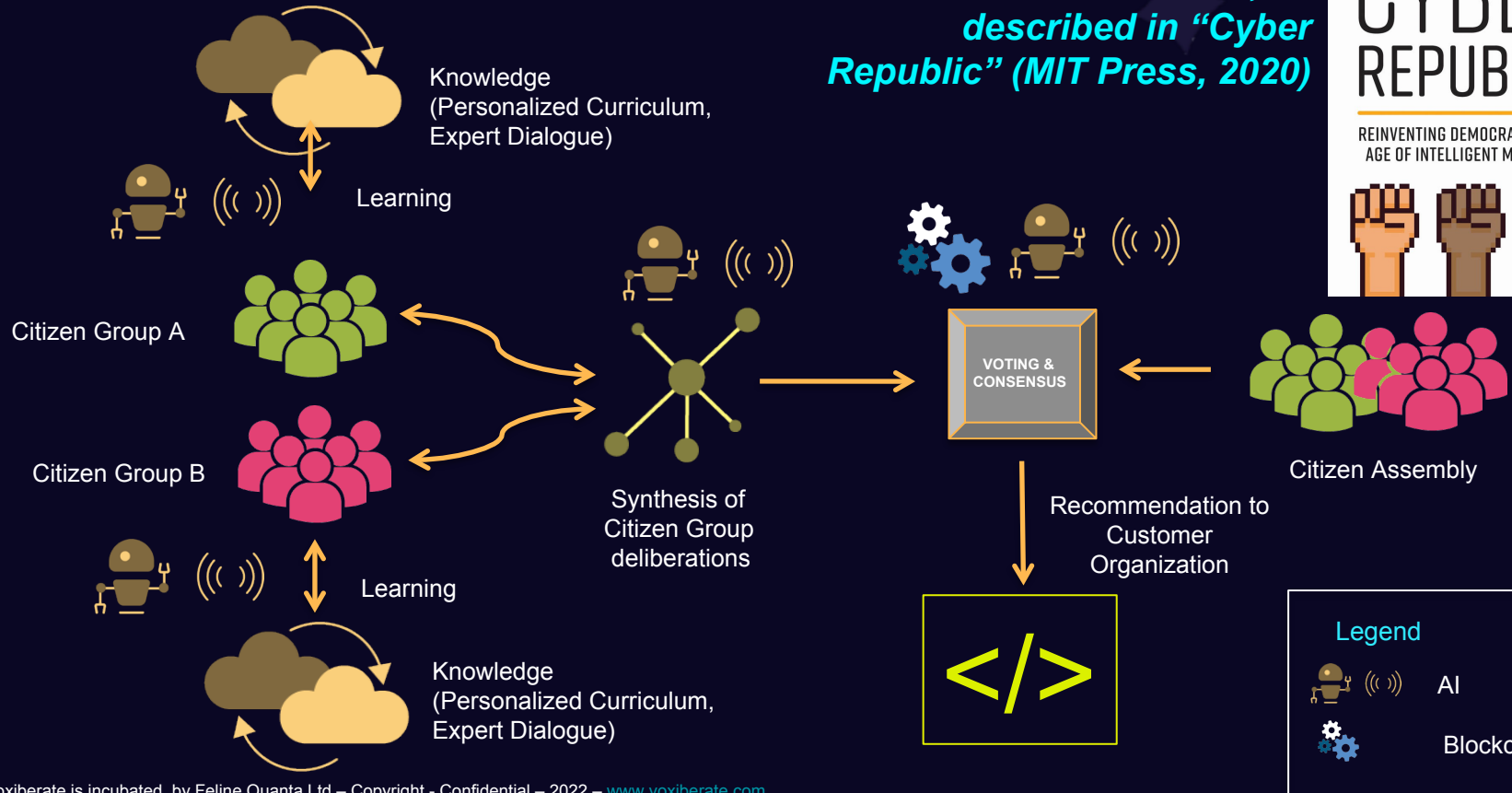
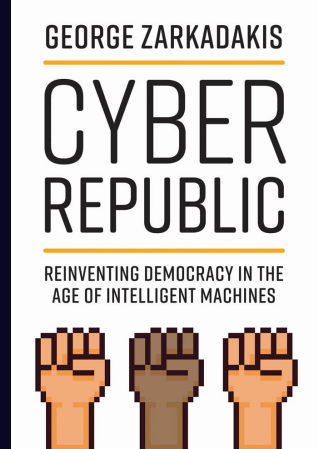


Deliberation: Formal, structured, facilitated, purposeful, must lead to consensus



The Voxiberate Citizen Assembly

A process for democratic deliberation for web3, as described in "Cyber Republic" (MIT Press, 2020)



How Voxiberate will be used

Solving the web3 governance paradox can deliver a new, human-centric digital economy

Commons Management (Ostrom)

- Set clear boundaries
- Define rules locally
- Create participatory procedures
- Build accountability once rules are set
- Apply graduated conflict resolution
- Make it easy and cheap to resolve issues
- Enforce legitimacy by working with other regional groups to ensure rules are harmonized
- Create structures of governance as needed.

Cooperativism (Rochdale)

- Build voluntary, open membership
- Create participatory processes for decisions
- Ensure everyone has skin in the game
- Allow for member autonomy in all arrangements
- Educate and inform to ensure member equality
- Build networks with other cooperatives
- Produce positive externalities for the community



Thank you

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