Collective Intelligence Talks

San Martin de los Andes
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Cyberia on the Edge

Edge Perspective

History

Origins: Aristotel	wisdom of the crowds
18th century: N. Condorcet	jury theorem
20th century: D. Engelbart	collective iq: augmentation via computers
20th century: M. Dorigo	swarm intelligence
21th century: A. Wooley	c-factor

Economics

- free markets
- incentive logic
- attention allocation

Game Theory

- equilibrium models
- strategic interactions

Distributed Computing

- coherence
- safety
- liveness

Methods

simple local rules producing global order

Longest chain rule
Temporal aggregation of effort for consistency

Schelling point
Coordination without communication

Random Walk
Local exploration converge to global equilibrium

Bayesian updates
Beliefs propagation convergence

Stigmergy
Self-reinforcing feedback and memory

Conway's game of life
Emergence from local determinism

Many more ....

Apps

Darpa

- strategic science
- swarm-enabled tactics
- human–machine teaming

Nasa

- crowdsourcing
- swarm robotics
- self-assembling structures
- sensor webs

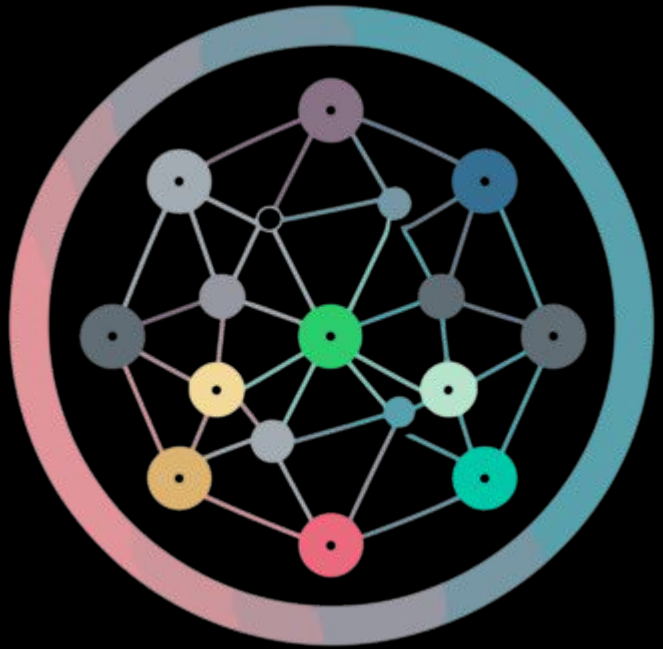
Cyberia: planetary scale superintelligence

Collective Focus Theorem

proves that
token-weighted random walks
in fully authenticated graphs
converges to
unique stationary distribution

Fully Authenticated Graphs

tx with 3 arguments of knowledge



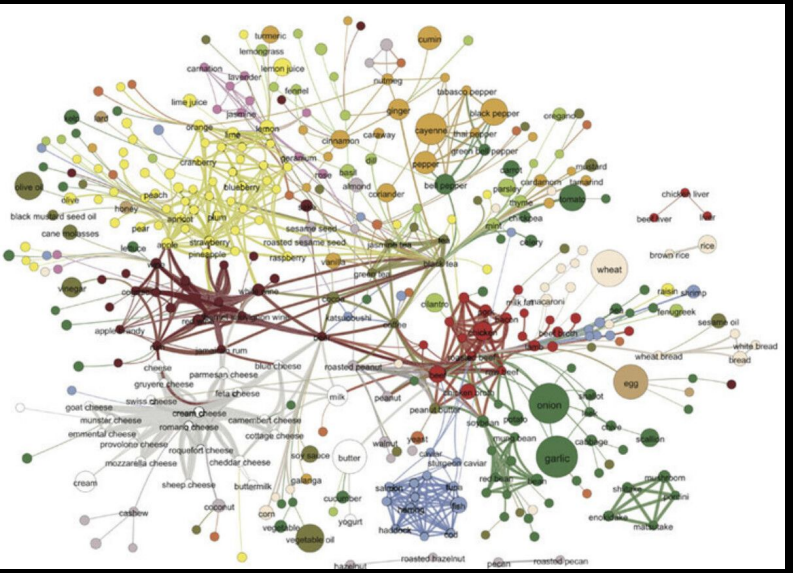
Who? => Neuron: pubkey (or cryptographic address) of agent

When? => Time: Unix timestamp verified by some consensus algo

What? => Link: between 2 files (ipfs content addresses)

Random Walk

Probably, the most fundamental processes in universe



local, memory-limited exploration process —
each step depends only on the current position and local transition probabilities.

Core Idea:

Local Exploration → Global Equilibrium

Standard Markov Chain theory =>
Unique Stationary Distribution

Unique Stationary Distribution

Distribution => Observation Probabilities

Stationary => Stable

Unique => The same for All

Stable, Coherent, Computable Collective Focus

Token weighting

Will of agents
to affect probabilities of observation

Application to a multiparty systems,
especially blockchain networks

Collective Focus Theorem

proves that
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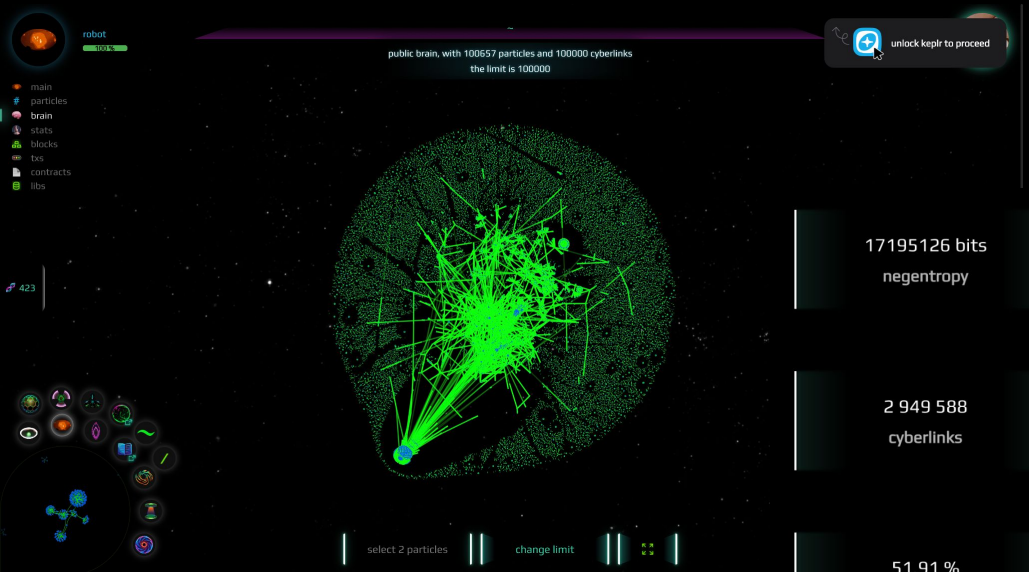
Foundation for Superintelligence

Bostrom: The blockchain with collective focus



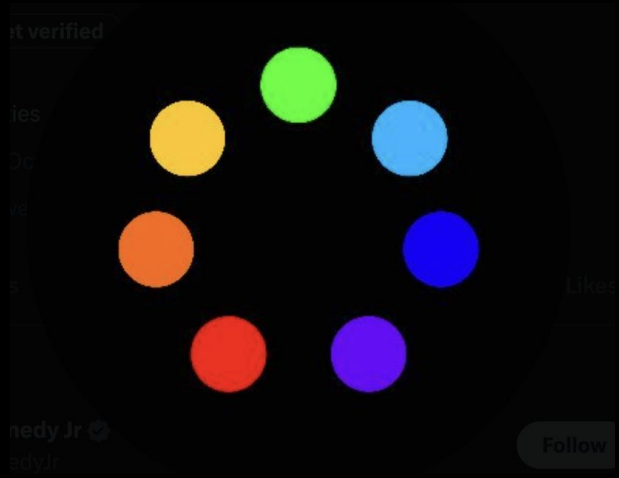
17195126 bits negentropy	238 mb gpu memory	7 518 439 transactions →	21 184 712 blocks →
2 949 588 cyberlinks	3 143 538 particles →	∞ neurons	4.45 % inflation
51.91 % staked boot	17 active heroes	62 412 533 394 750 community pool	35 proposals
47 831 citizens	44 923 gift claims	0 contracts	0.938 beta

5 of November

13:00 => the Story of Bostrom

20:00 => remember, remember

Cyberia



Superintelligent Network of future cities