

On Global Brain and AGI co-evolution

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 SingularityNET
<https://singularitynet.io>

If Artificial Intelligence is possible at all?

- 1) No
- 2) Yes
- 3) It is already here, but we are unaware of it
- 4) It is already here and it is the “**Global Brain**” as collective intelligence of entire humanity

“Global Brain” as a global planetary cognitive system

**- is a key concept for personal, corporate and national
development in post-information society**

The post-information society in 21st century makes every single person and device on earth interconnected with high-speed Internet channels and high-performance computers.

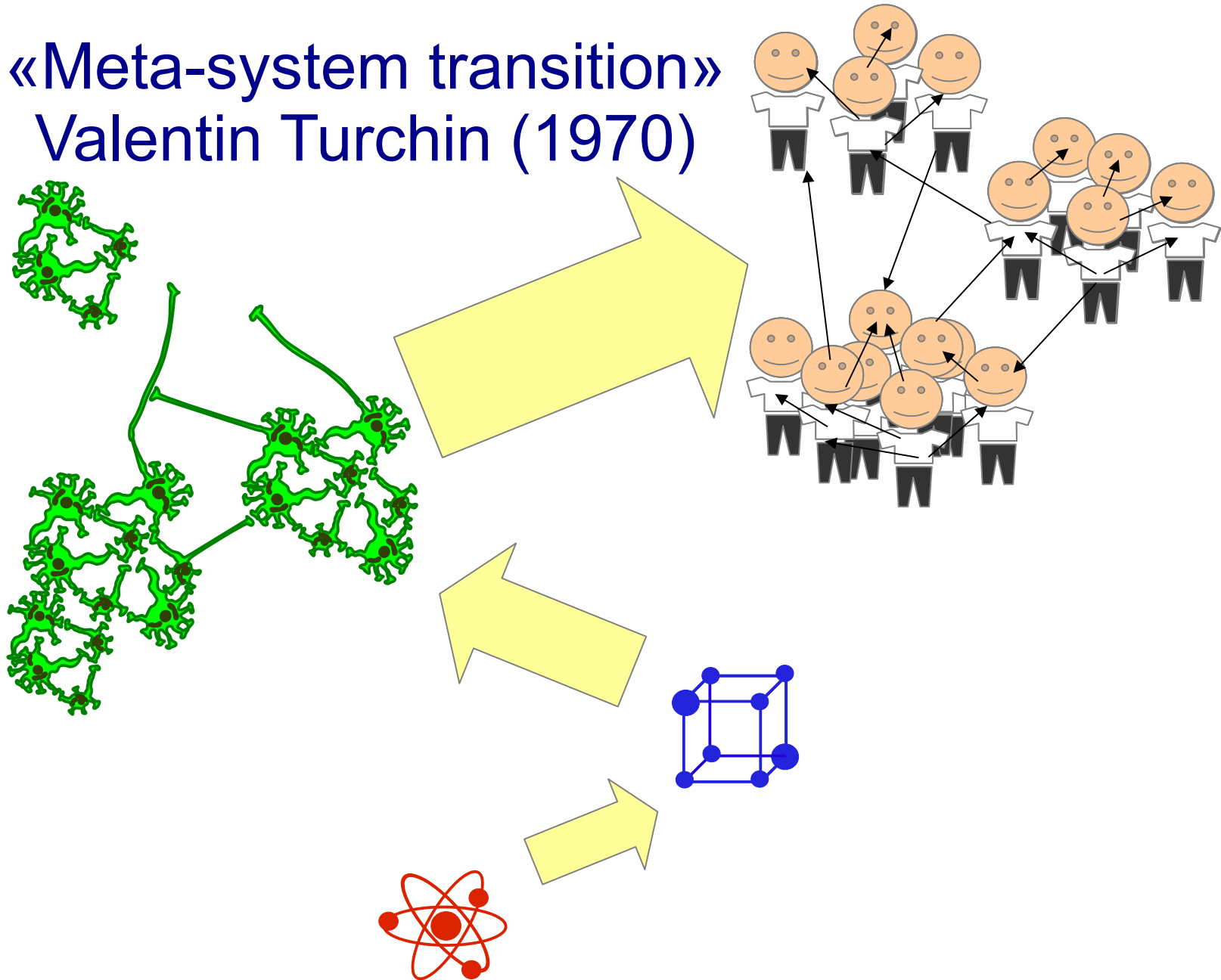
This effectively creates "computable social network" with amount of nodes and degree of connectivity comparable to those of human brain, but with much more complex signals transmitted over the links and much more complex processing in the nodes – at much higher speeds and much greater volumes.

On one hand, this provides great opportunities to acquire new information from the network and impact on its performance - to each of participants of such "social computer" (or "global brain").

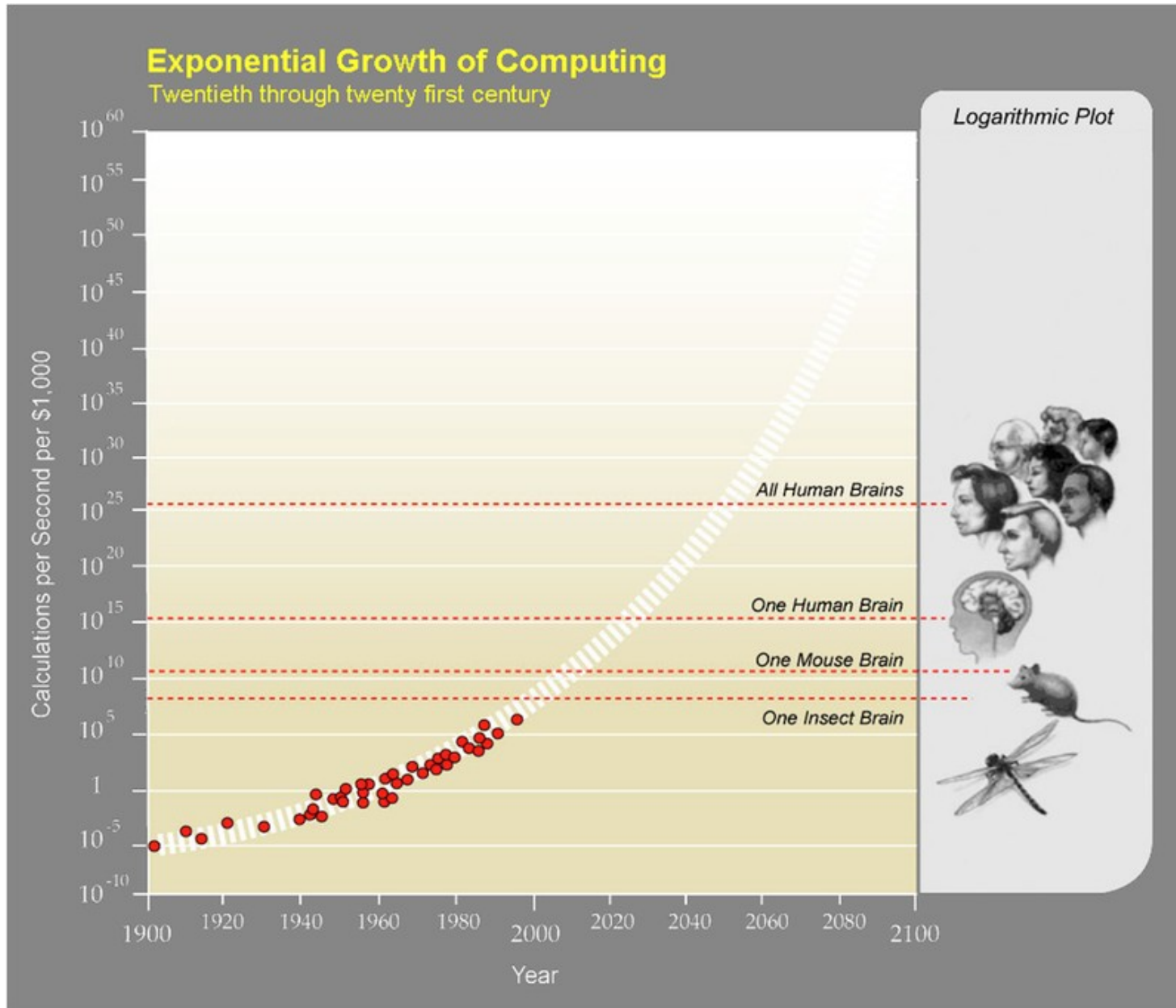
On the other hand, this gives much more opportunities to use the nodes in the network for controlled (manipulated) behavior beneficial for the operators of the networks - driven by these operators.

Evolutionary Perspective – from Simplest to Complex

«Meta-system transition»
Valentin Turchin (1970)

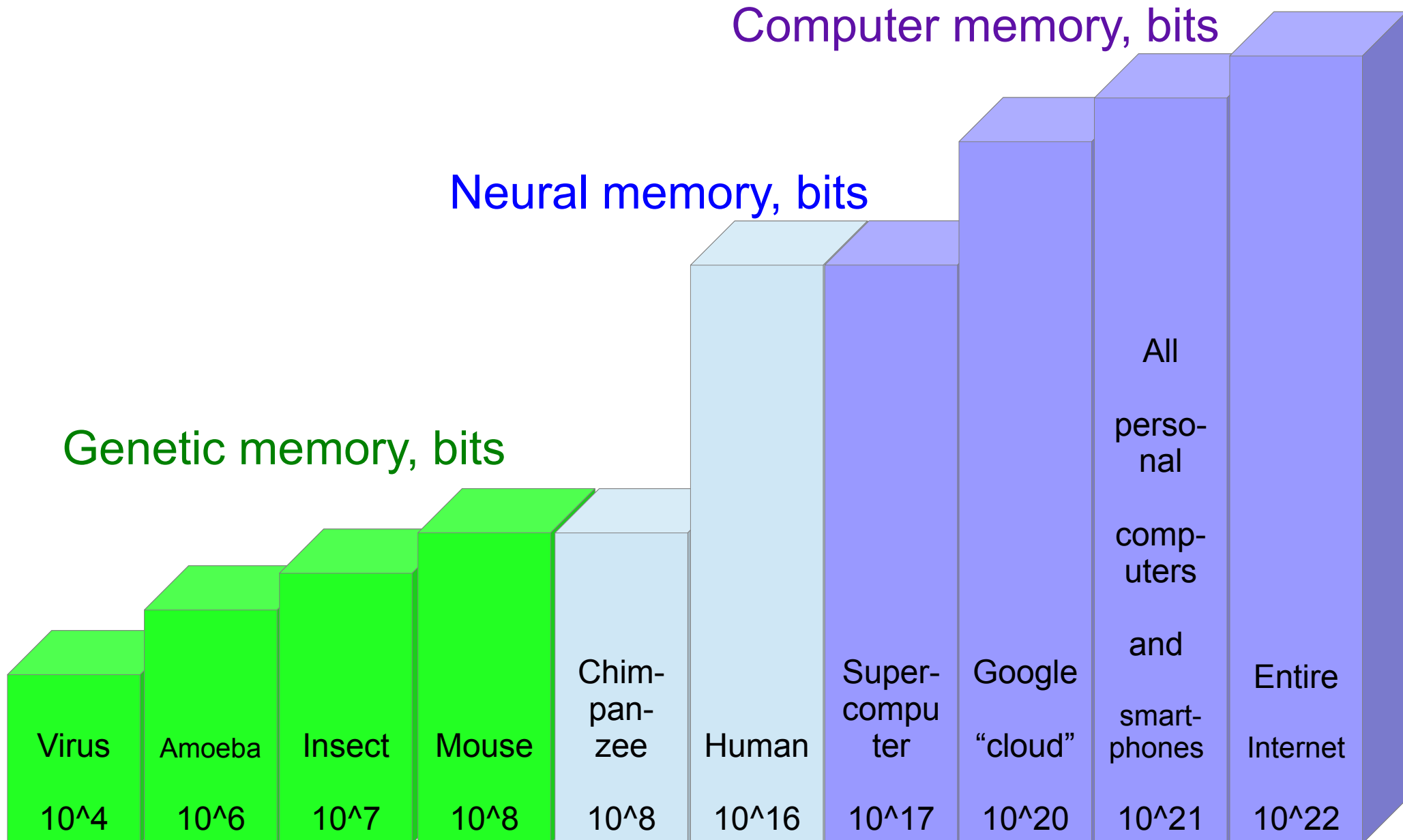


Exponential growth of computing power



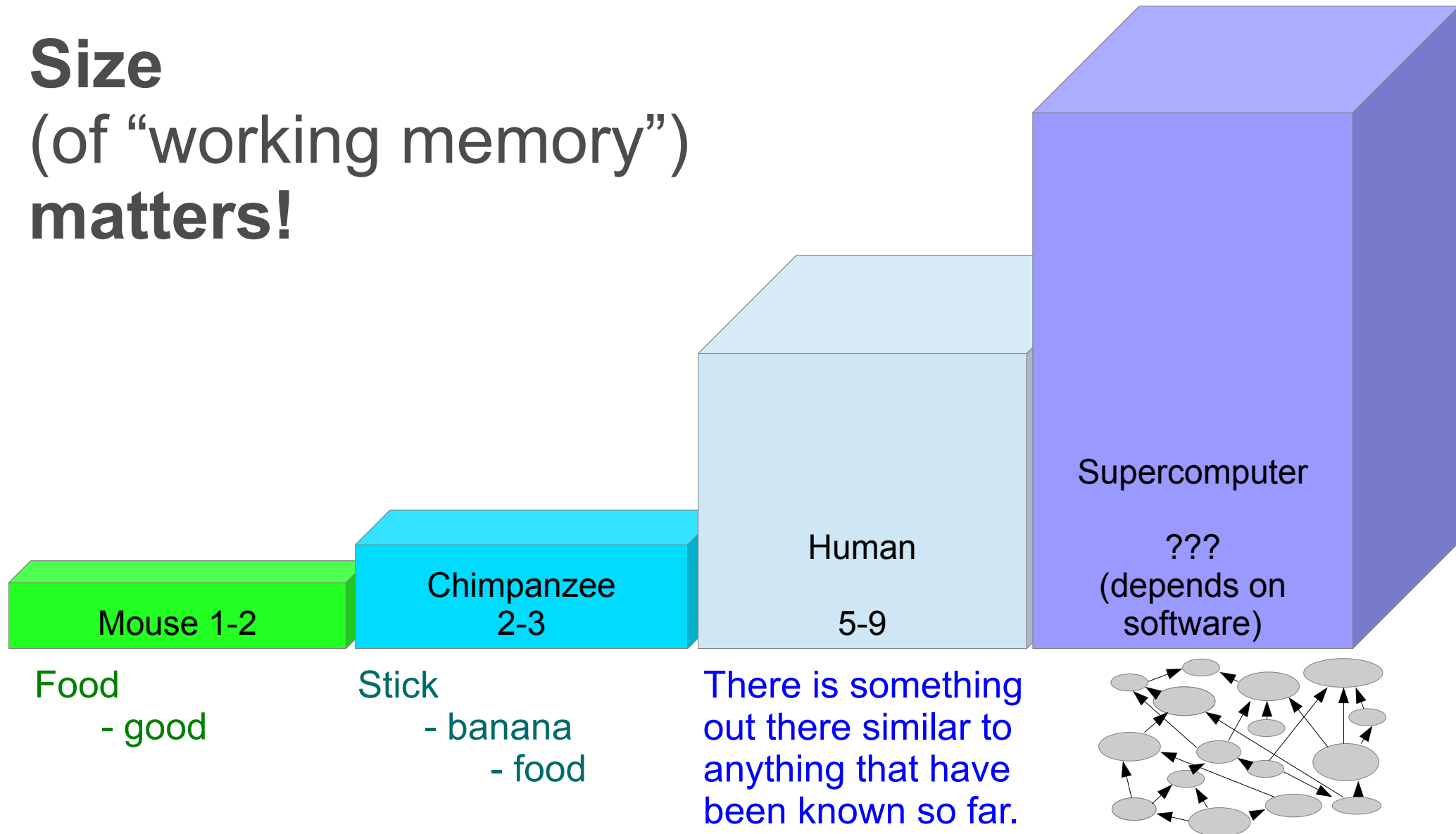
Source: <http://waitbutwhy.com/2015/01/artificial-intelligence-revolution-1.html> (accordingly to R.Kurzweil)

Growth of information storage capacity



Evolutionary growth working memory capacity

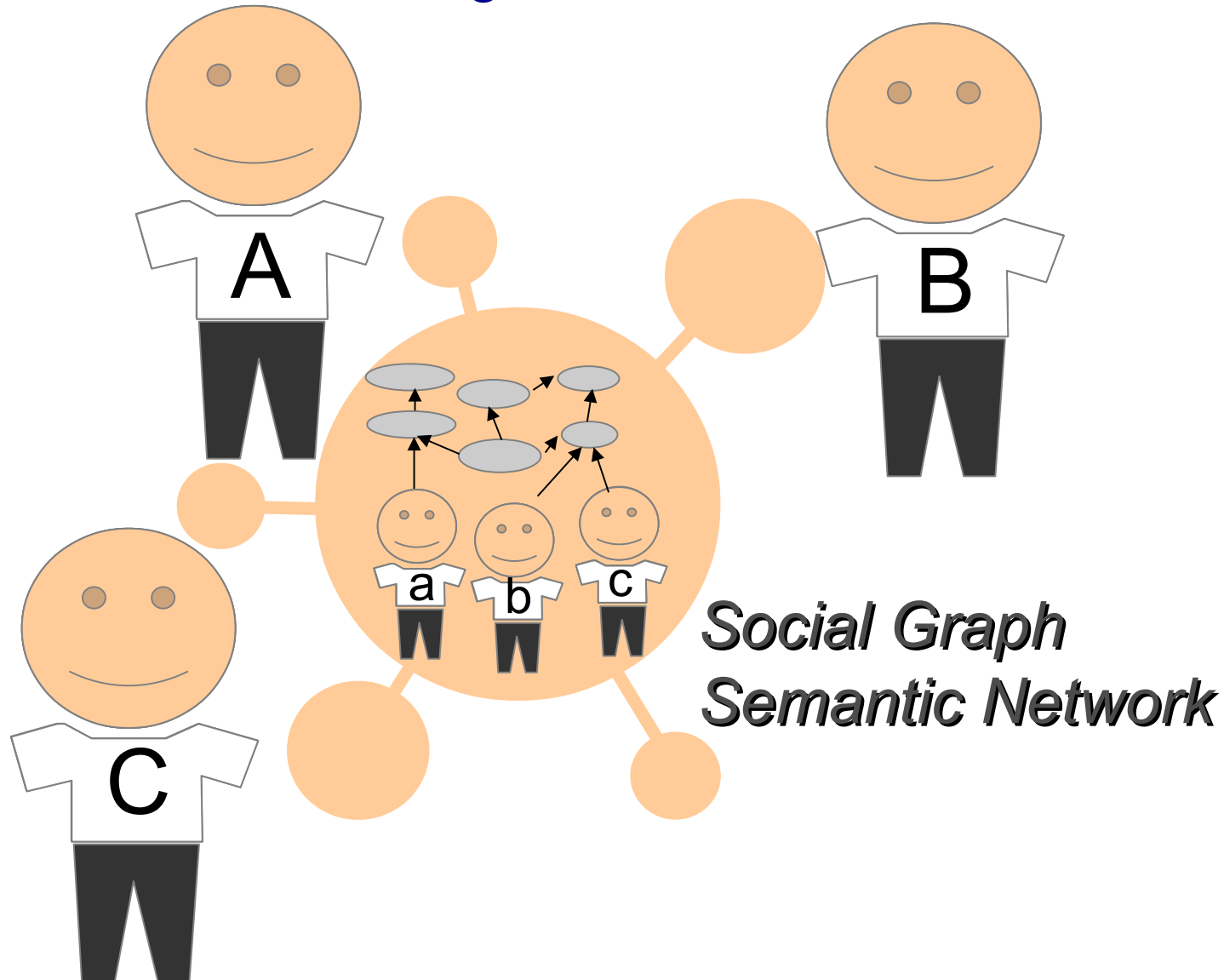
Size
(of “working memory”)
matters!



Social Computing

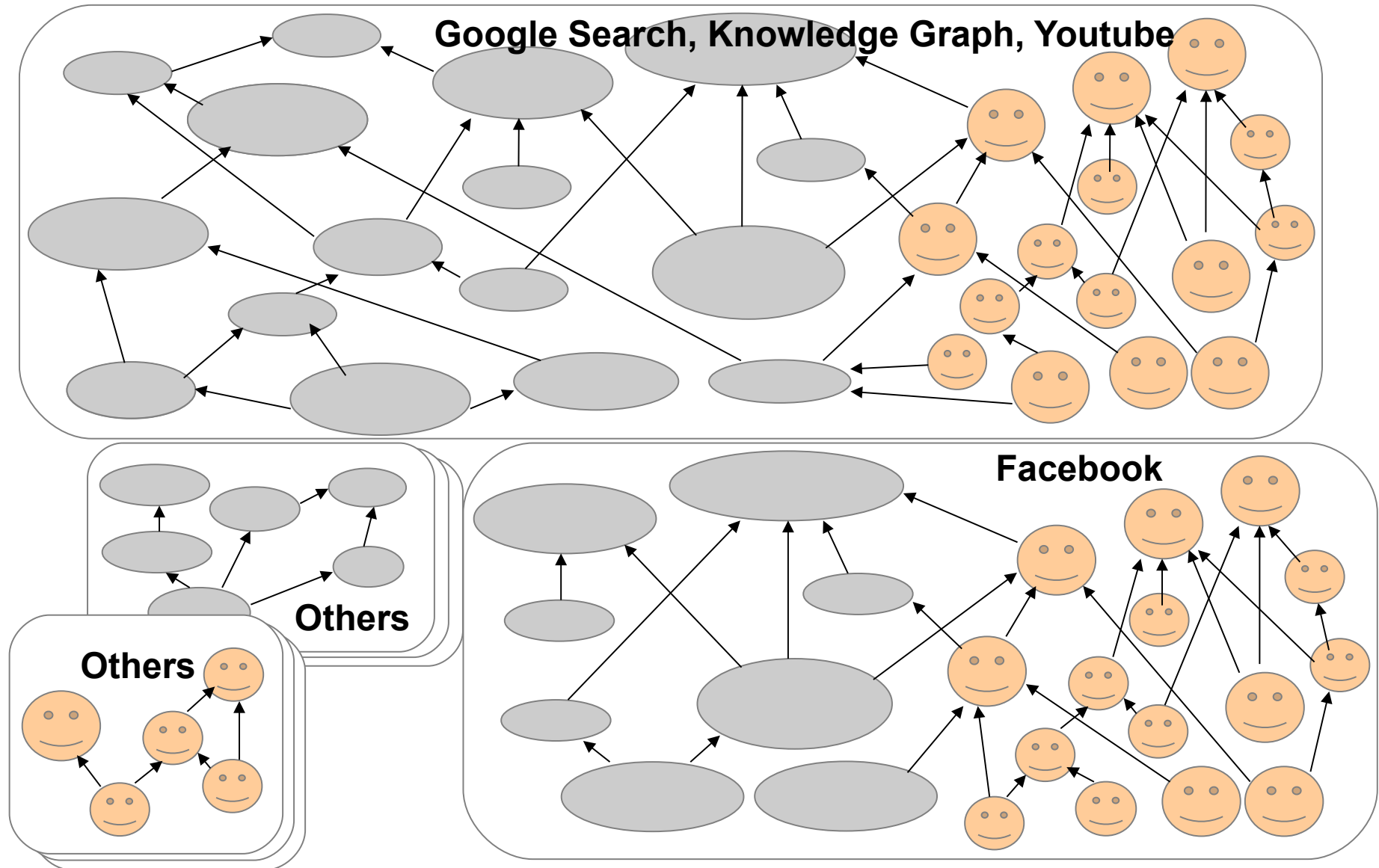
Humans as a nodes in a computer network

Inner images of outer selves

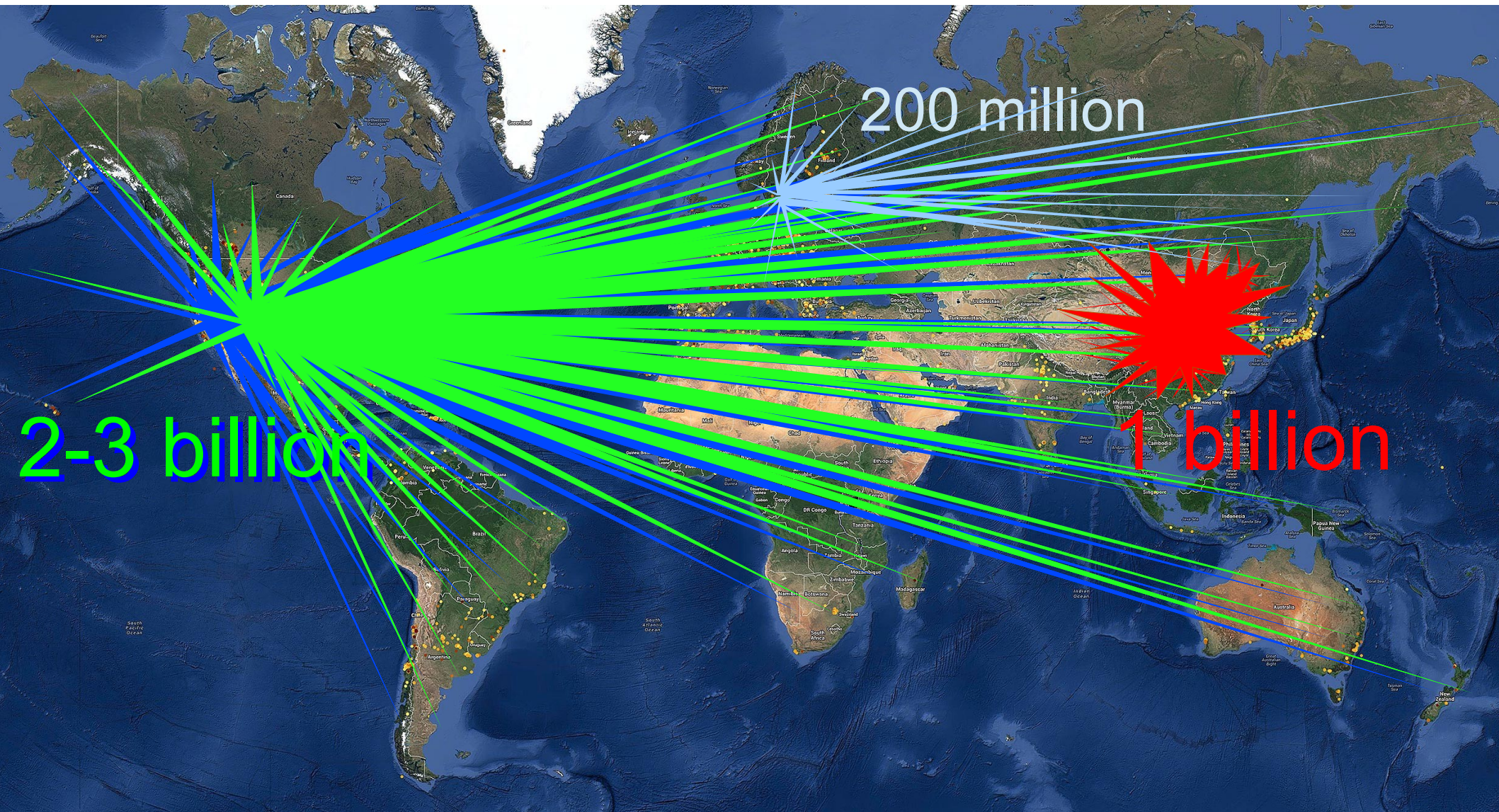


Social Networks as Social Computer

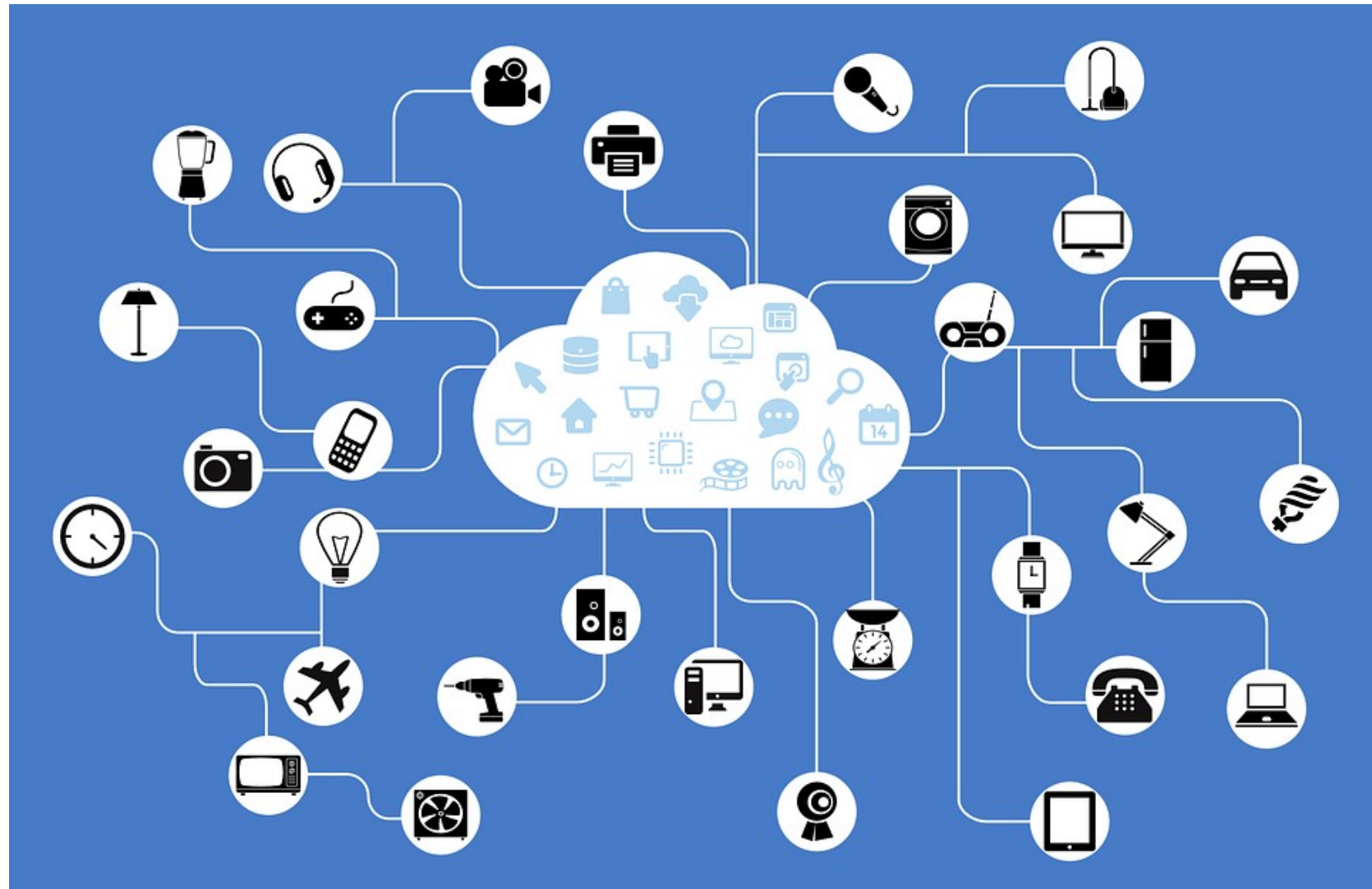
Executing the “Global Brain” program



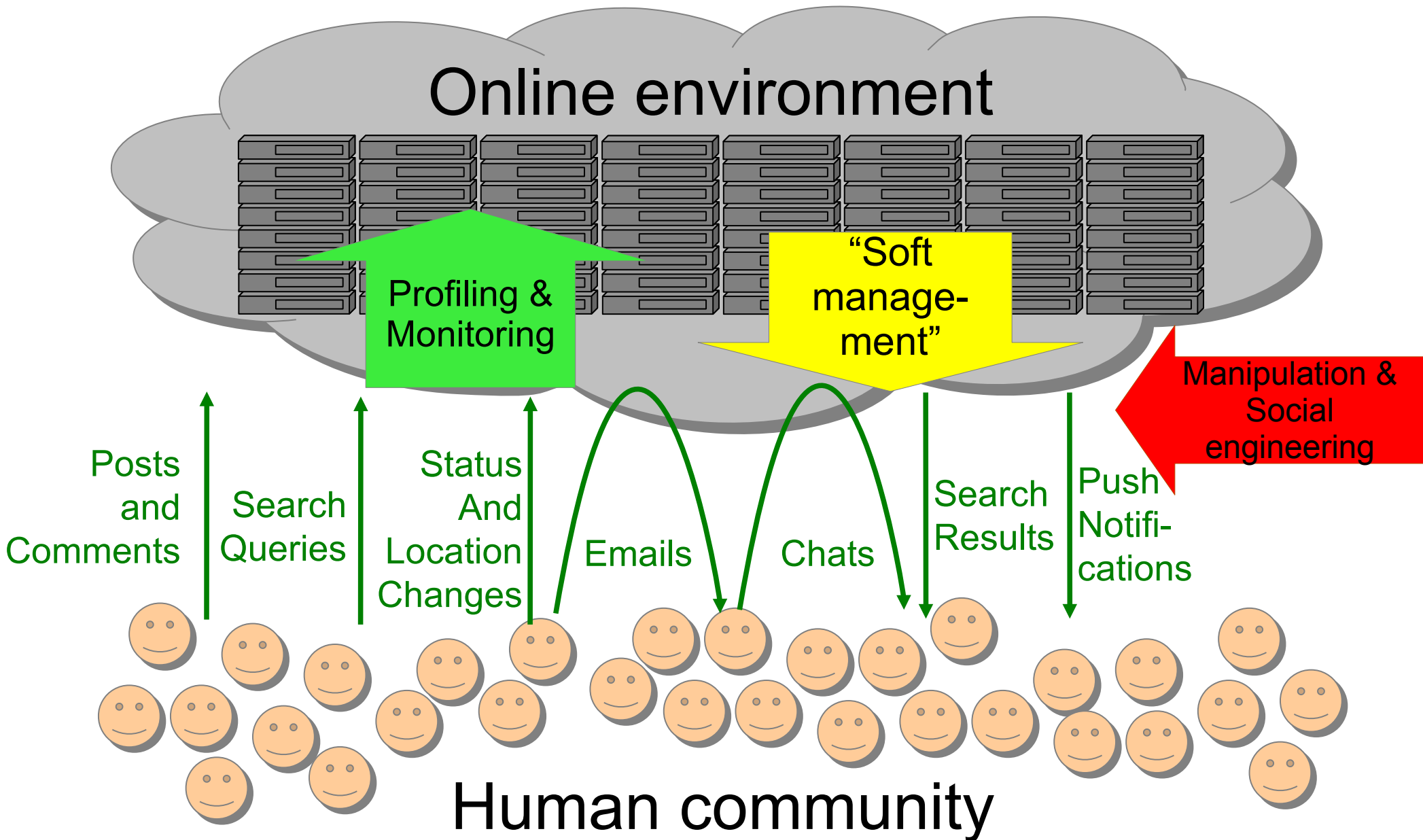
People connected to “Global Brain” monthly:
Google+Facebook – worldwide, Telegram – worldwide
WeChat+Baidu+QQ - in China



World-wide social network of 7.5 billion humans,
is accompanied with 15 billion IoT devices in 2018
with many of them supplied with AI in the next years



Architecture of collective intelligence and social engineering in online environments

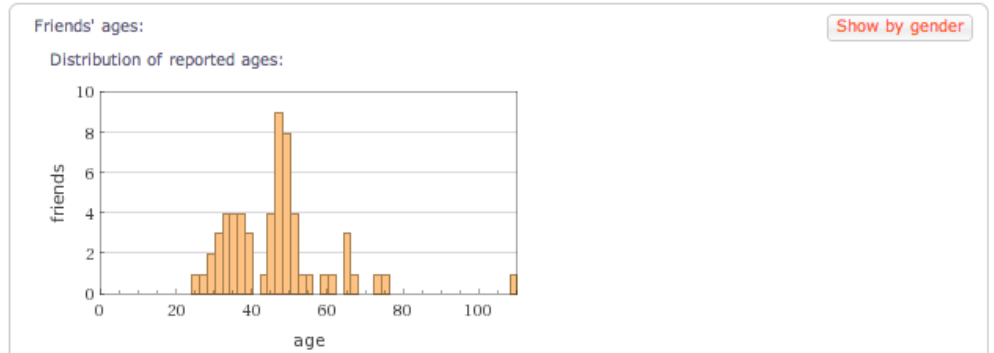
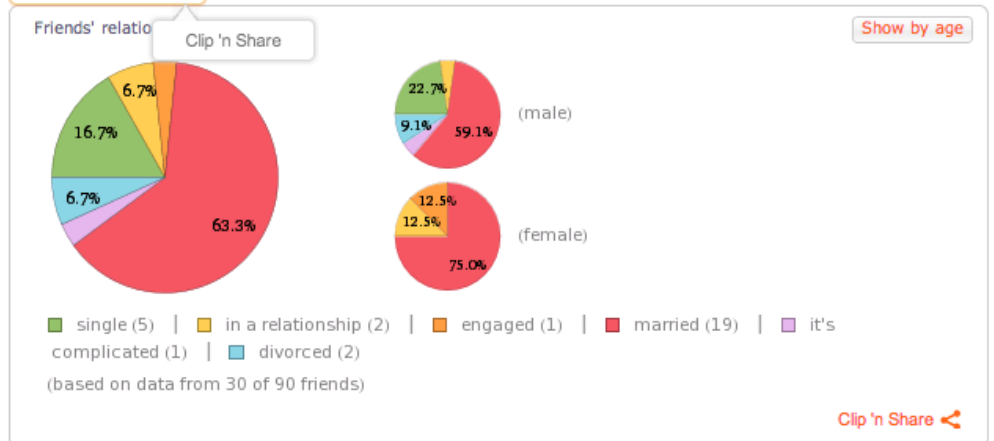


Global Brain computing power at a glance



Social network analysis with Wolfram Alpha

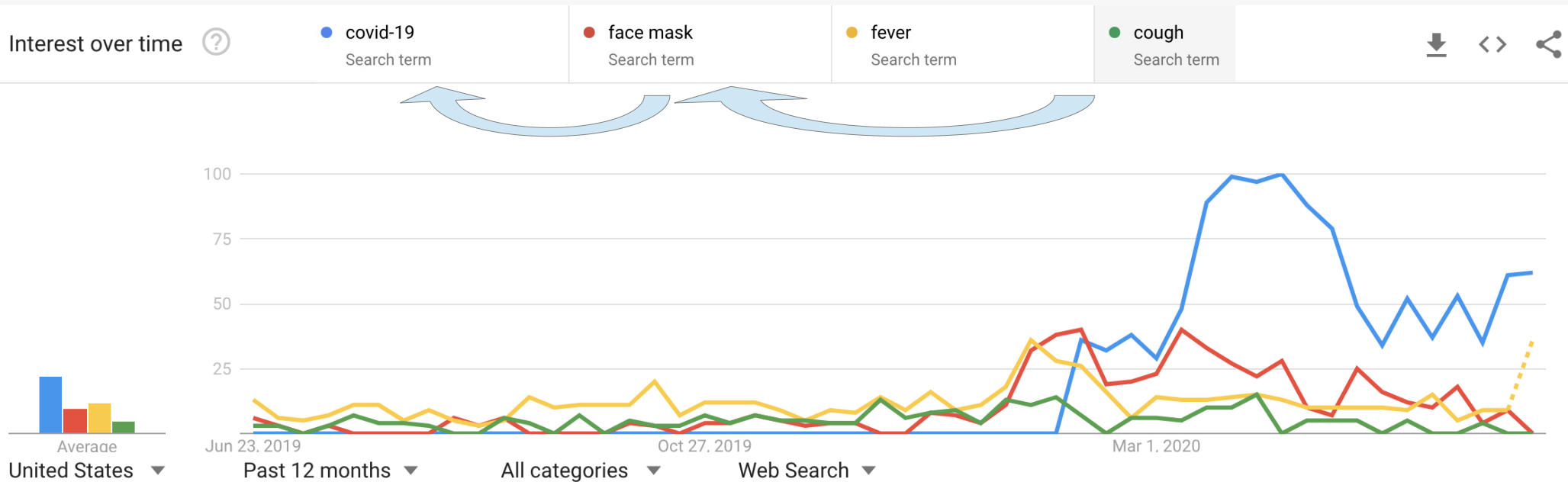
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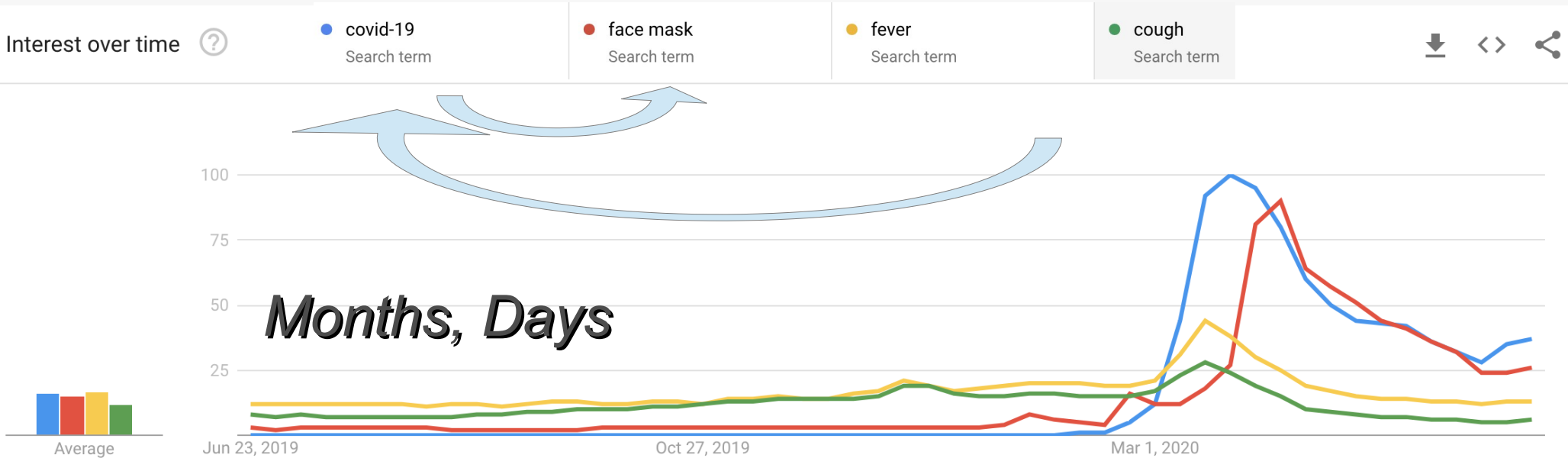
Google Trends Reflections to COVID-19

China ▼ Past 12 months ▼ All categories ▼ Web Search ▼

<https://trends.google.com/trends/explore?geo=CN&q=covid-19,face%20mask,fever,cough>



<https://trends.google.com/trends/explore?geo=US&q=covid-19,face%20mask,fever,cough>



Tracking COVID spread with Kinsa smart thermometers

US HealthWeather™ Map

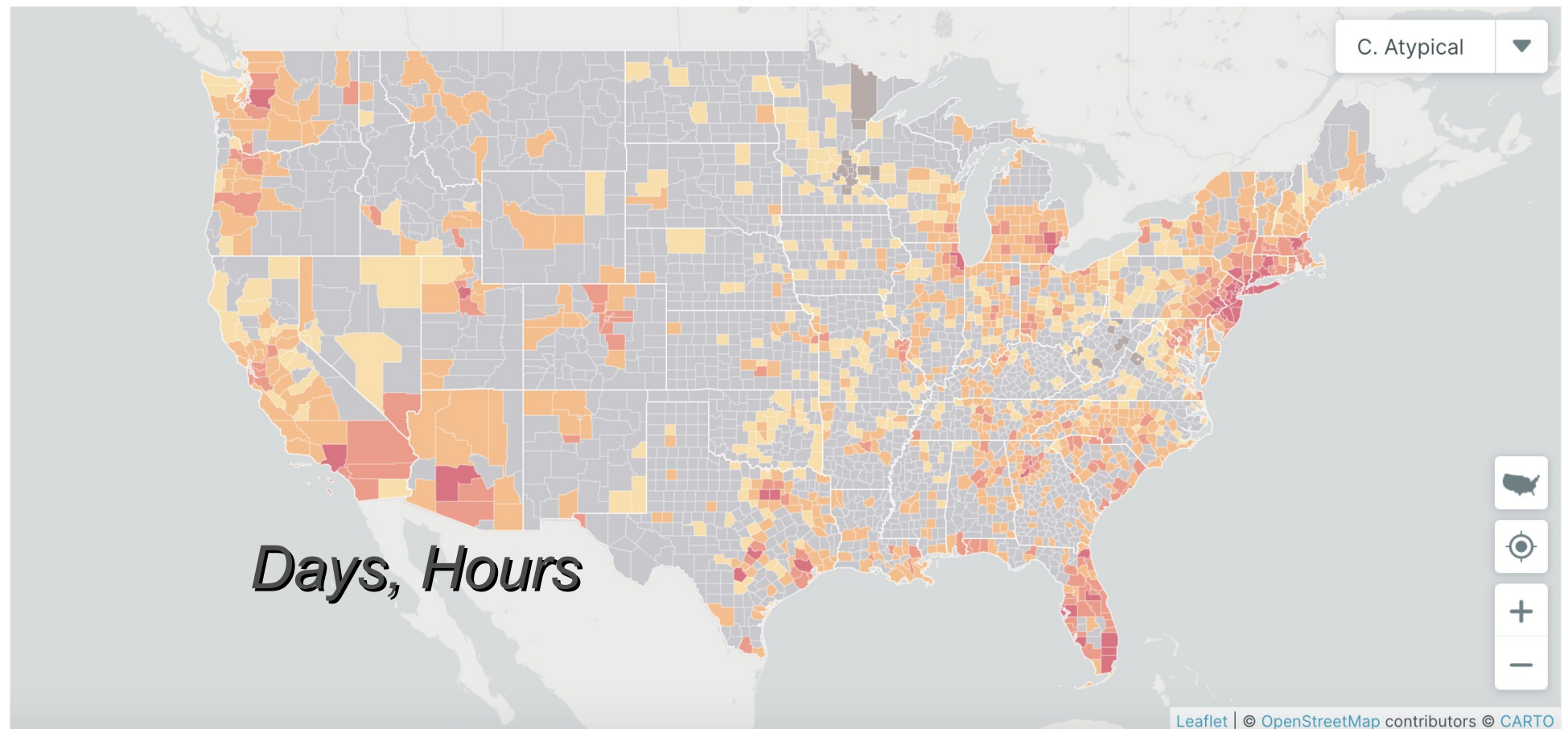
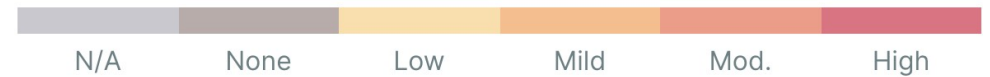
Powered by  kinsa
INSIGHTS

Please see [our statement](#) on racism as a public health issue.

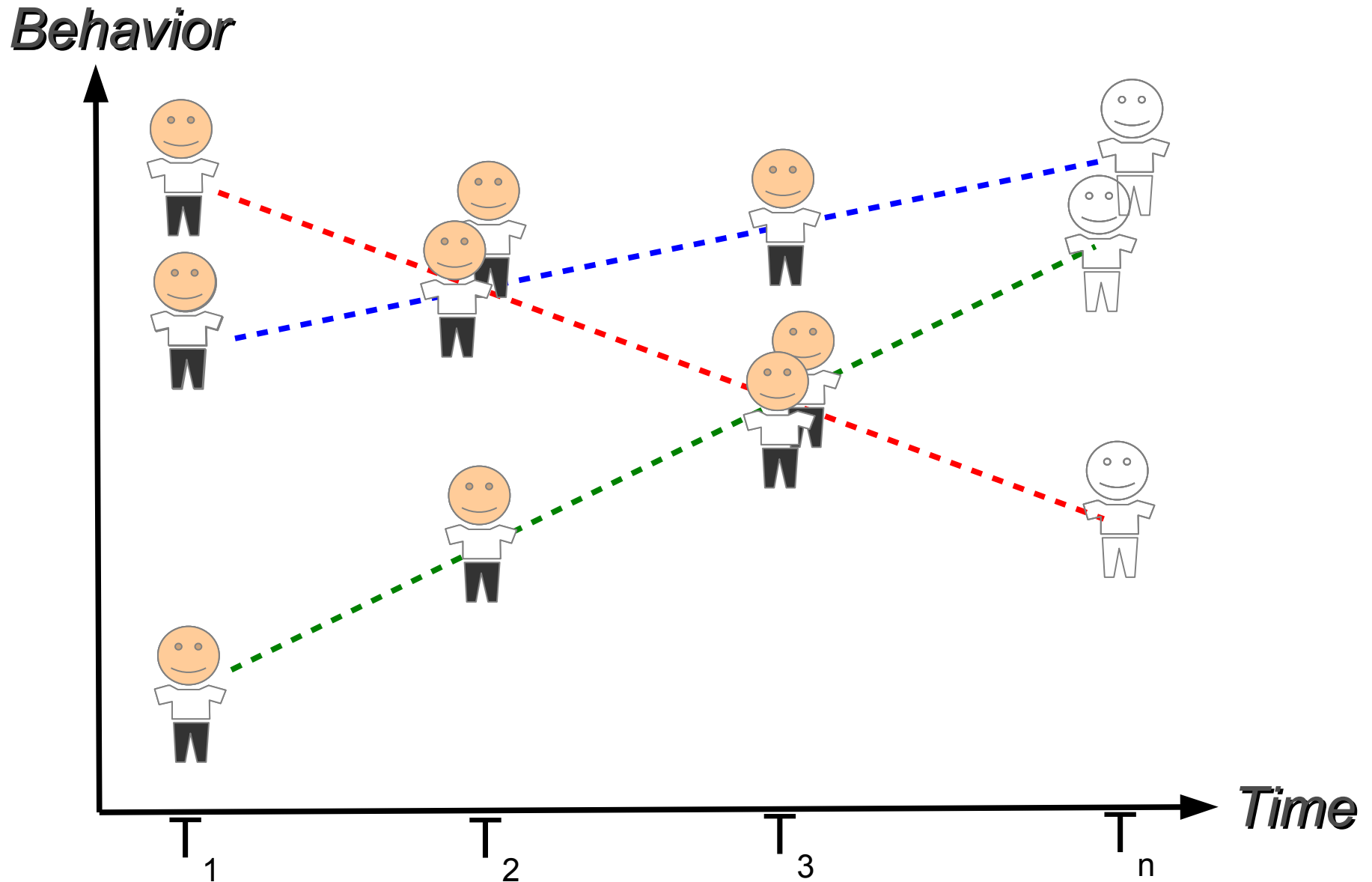
Look up influenza-like illness near you:

 Search zip code or county name

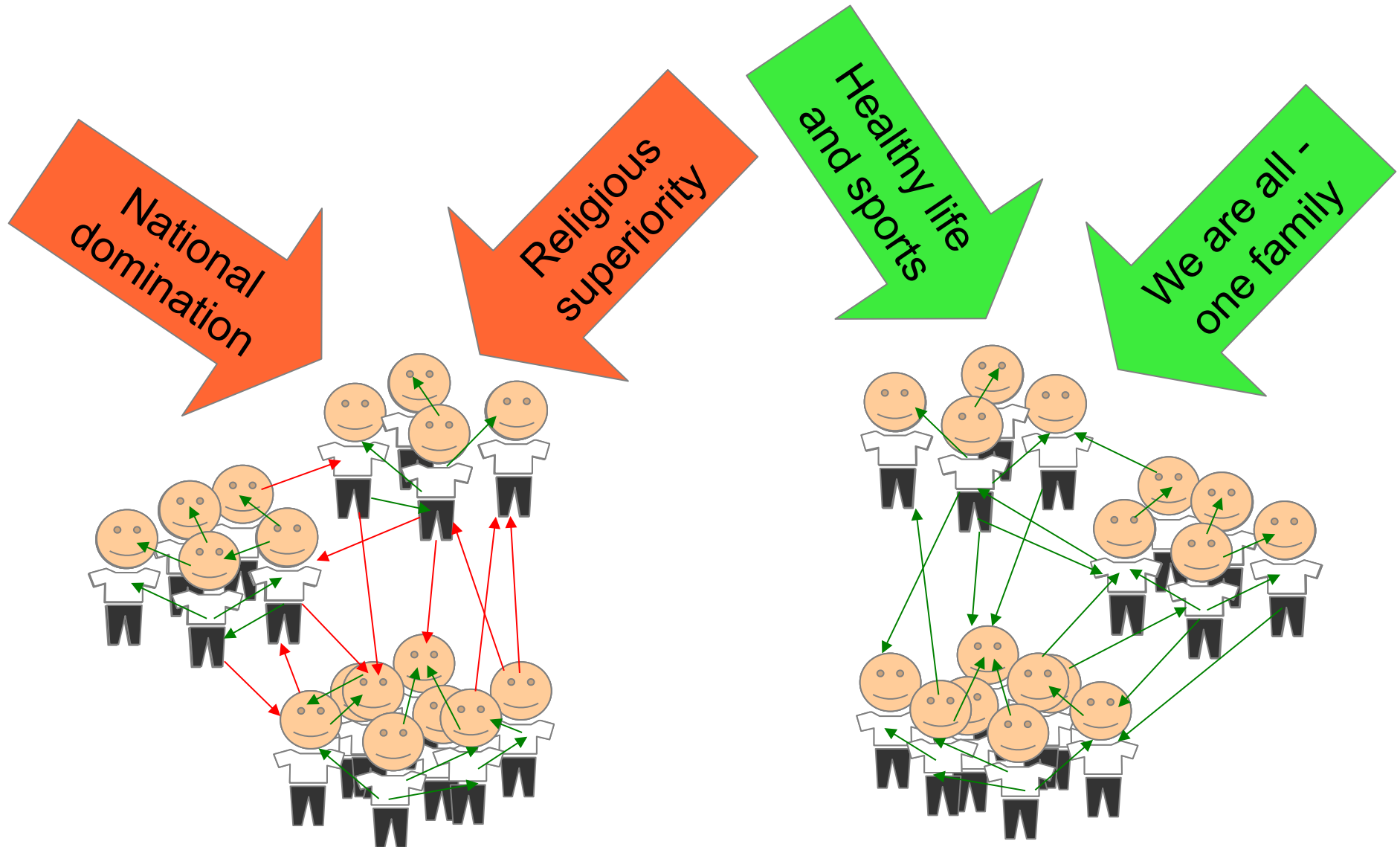
Cumulative Atypical Illness 



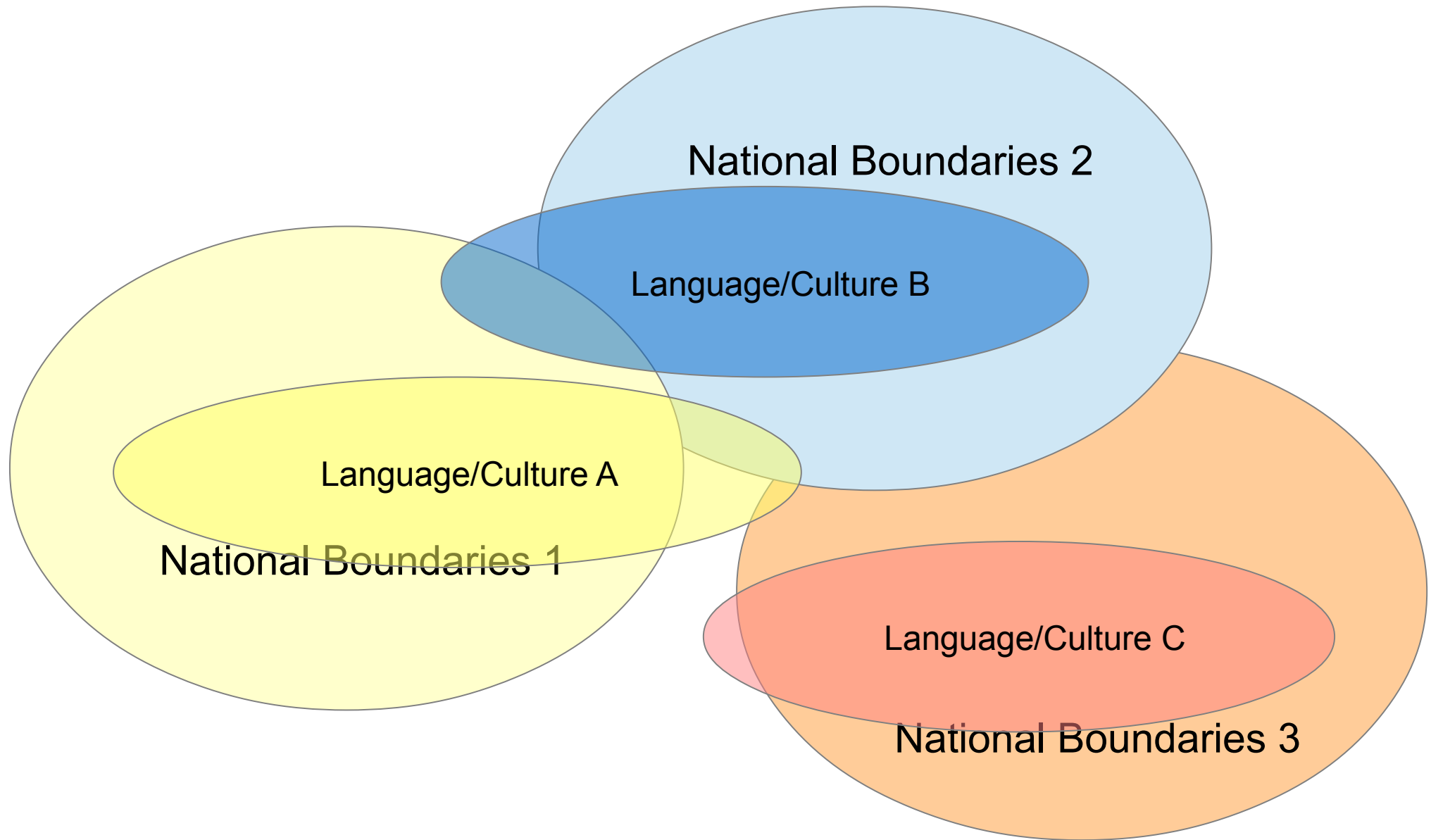
Predictive analytics of social dynamics



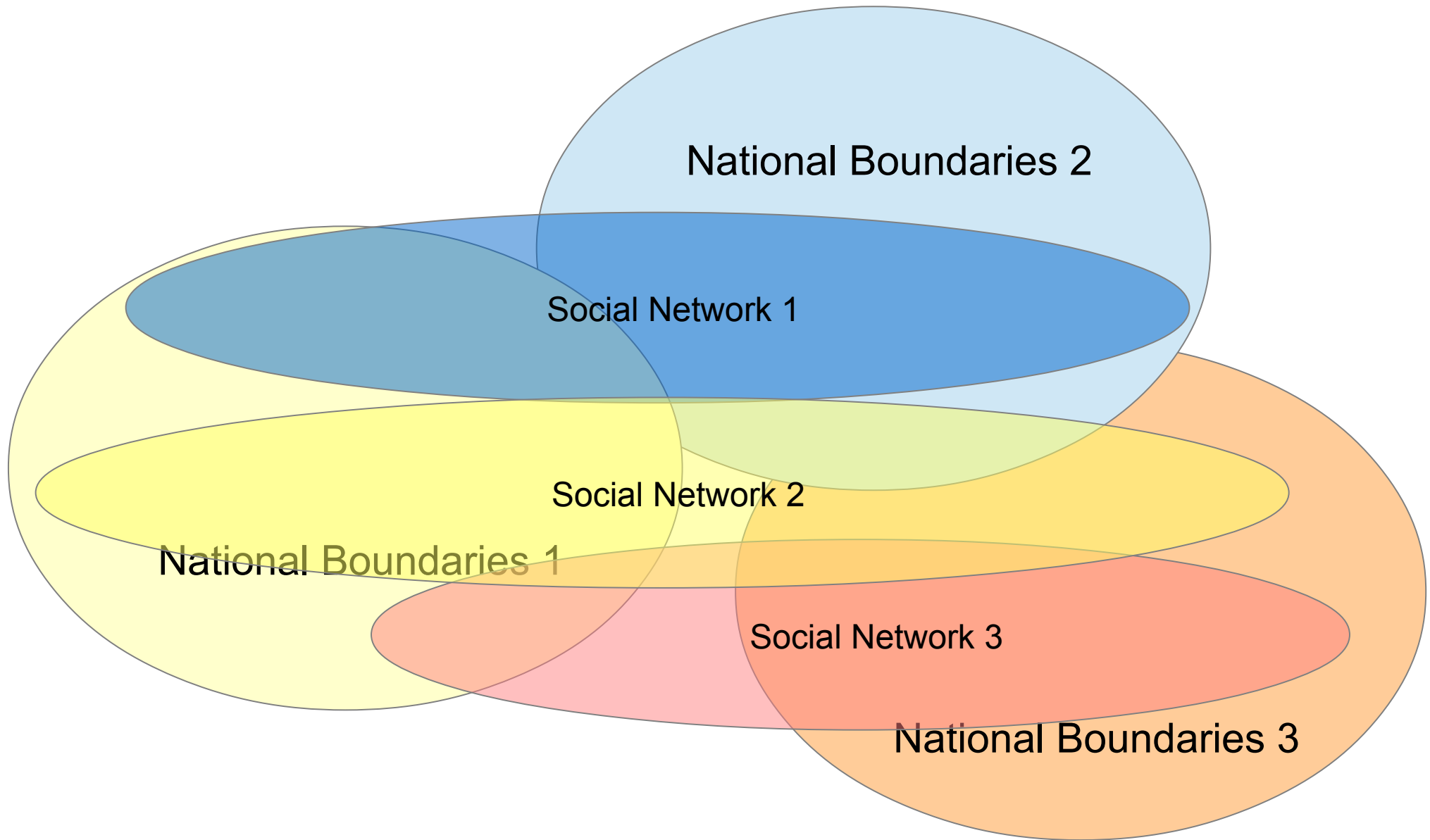
Managing social behavior by external force (including marketing and PsyOps)



Ancient segmentation by borders and languages



Modern segmentation by “Social Networks”



“Global Brain” as a global planetary cognitive system

- **is a key concept for personal, corporate and national development in post-information society**

That means,

for business corporations managing their workforce and customers
and

for national governments responsible for care of their citizens,

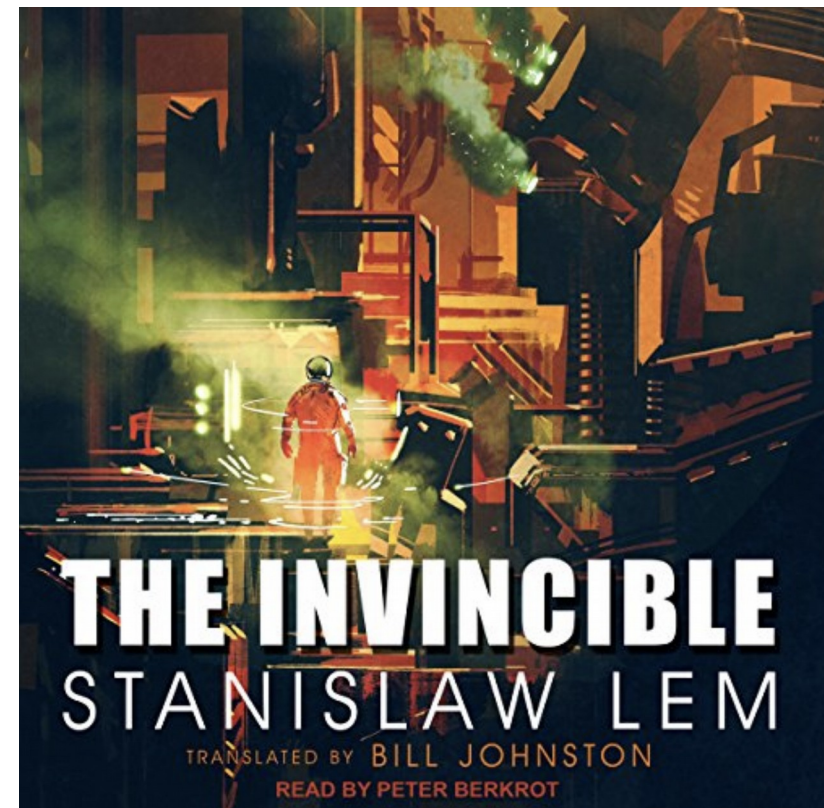
it is crucial to

understand laws of the emergent cognitive behavior of such
complex systems;

for every person,

it means new reality to understand and adjust their lifestyle to.

Future “Global Brain” AGI: Centralized Single or Distributed Swarm?



Possible Future Scenarios

10-100 years

Evil and/or dumb AI kills people because of people's negligence

50-200 years

We destroy the humanity with help of AI

100-500 years

AI will help us to degrade as a civilization

500-50000000000 years

AI will save our civilization at post-humanity level

Can we help Global Brain to get better?

1) Distributed open
AI ecosystem



2) Reputation system for
Liquid Democracy

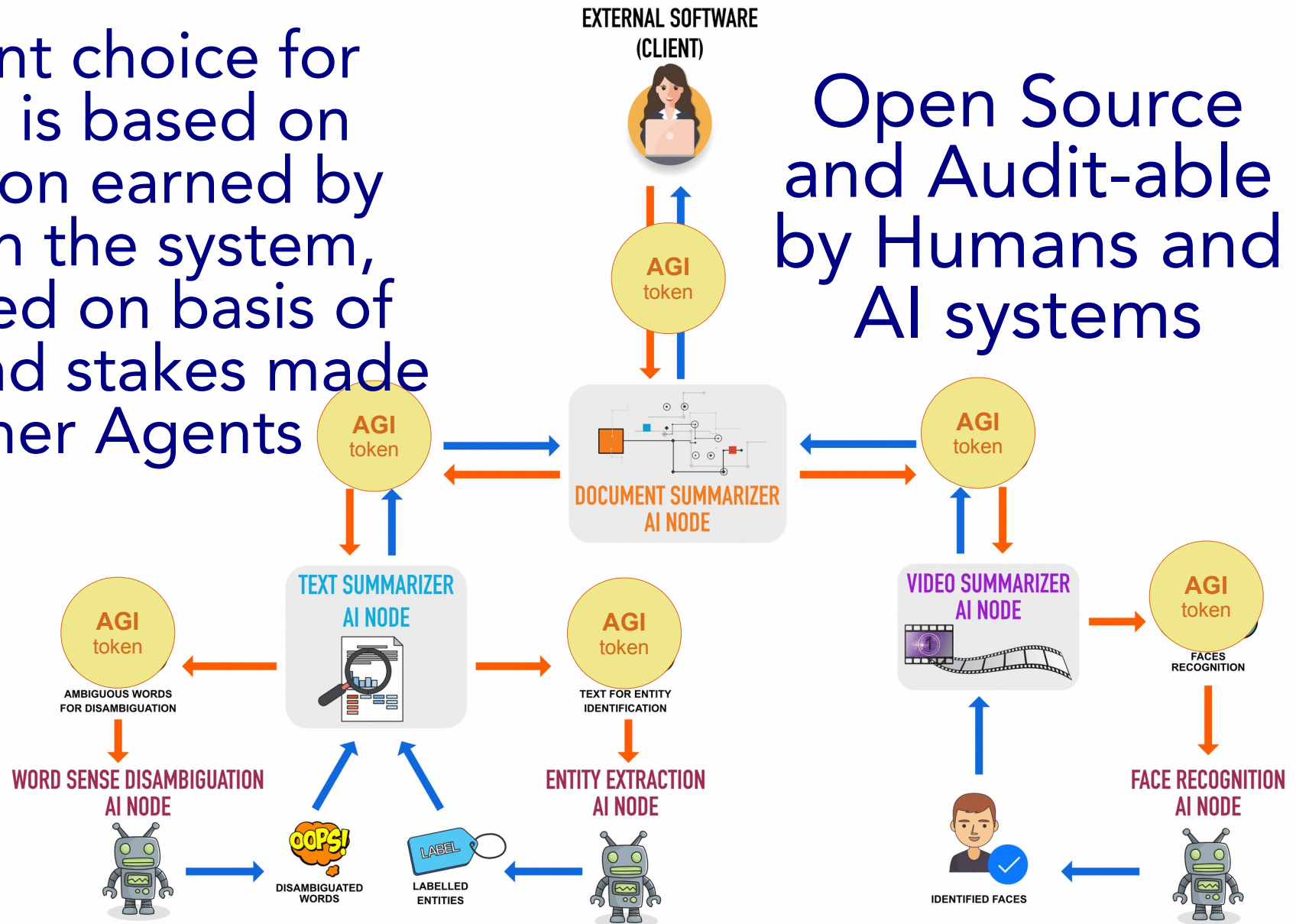
3) Personal AI Agents



AI Marketplace for Products and Services:

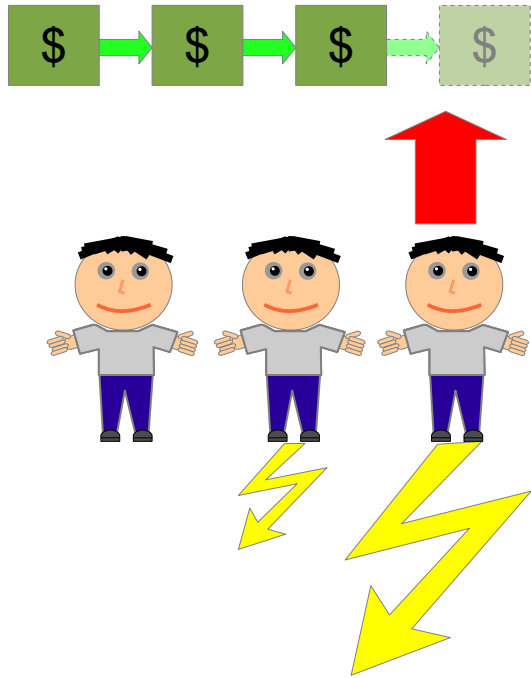
AI Agent choice for service is based on reputation earned by Agent in the system, computed on basis of ratings and stakes made by other Agents

Open Source and Audit-able by Humans and AI systems



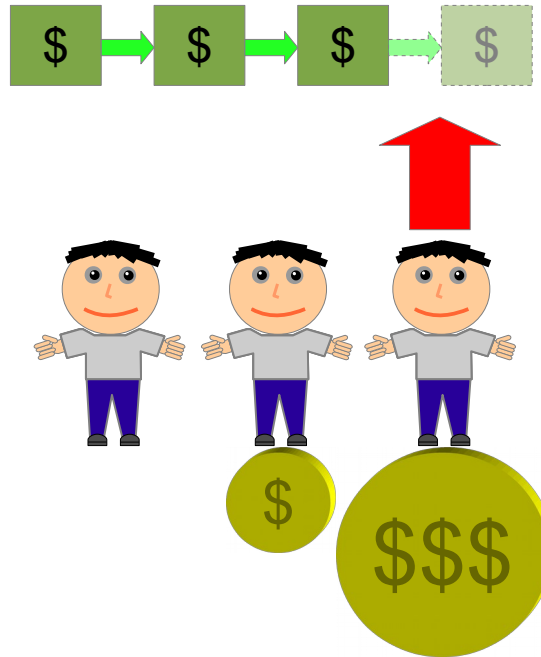
Consensus – technology to govern distributed multi-agent systems such as blockchains or societies, resistant to takeover and scam.

Proof-Of-Work



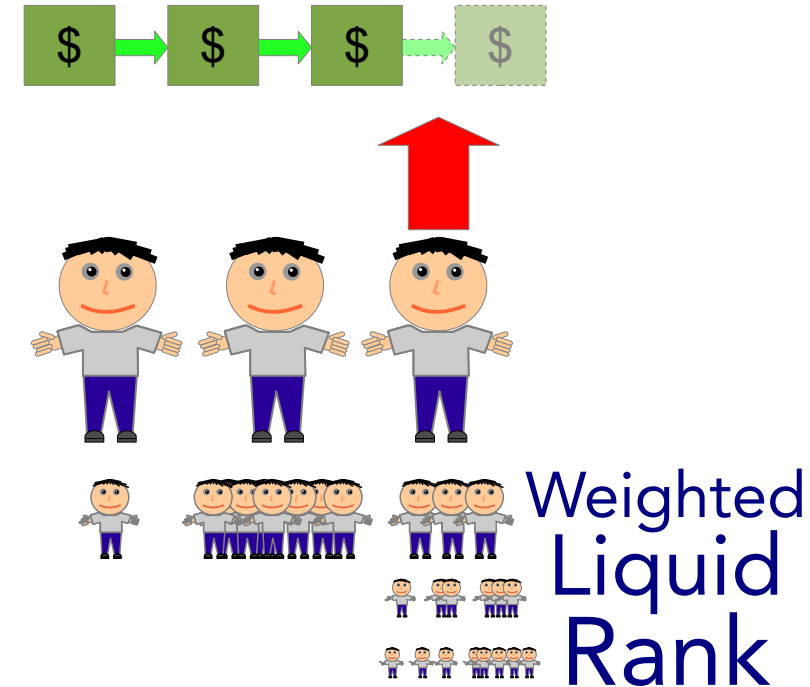
Force is Power:
Those who own more computing resources govern the network.

Proof-Of-Stake



Money is Power:
Those who have more money govern the network.

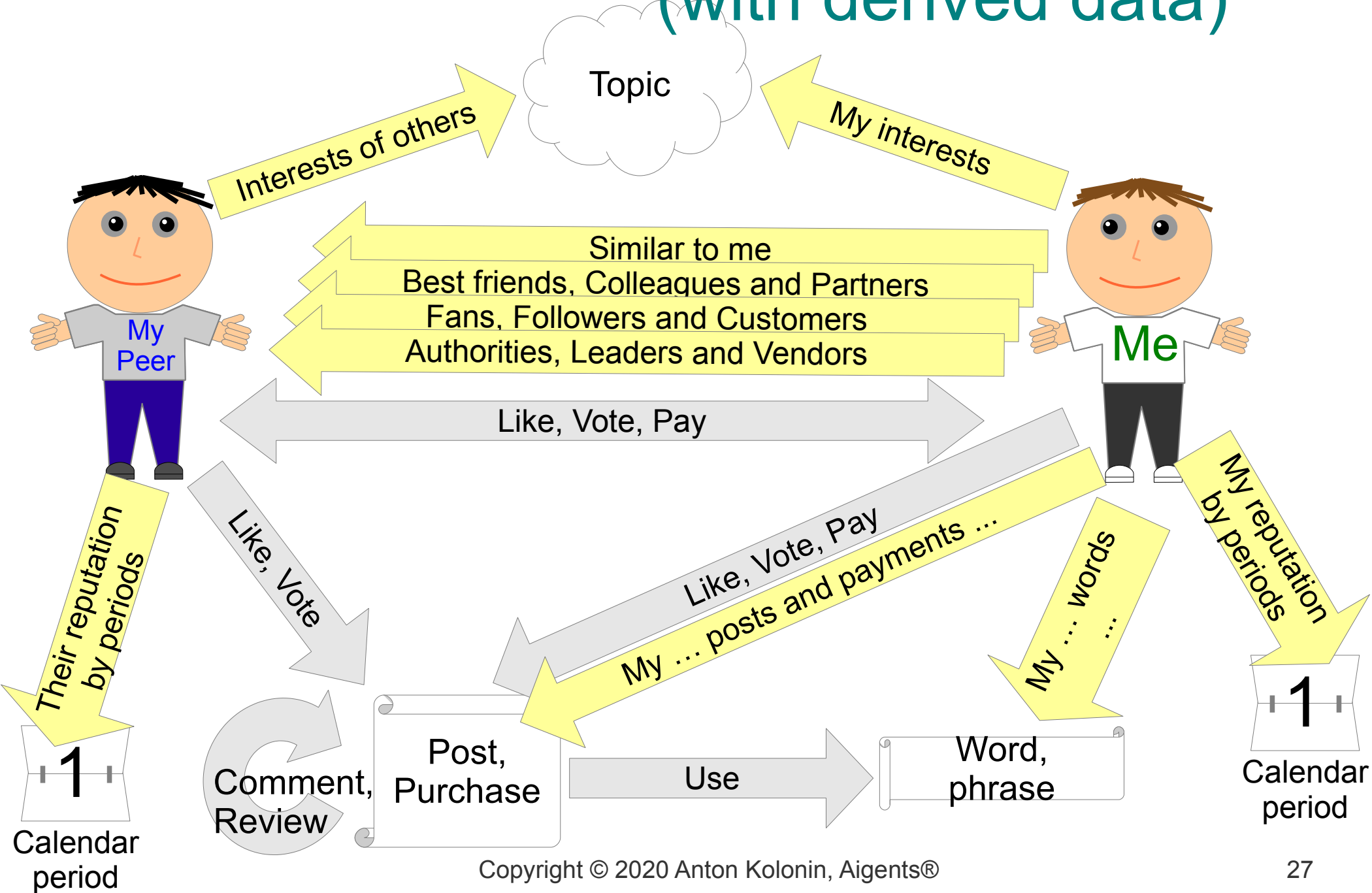
Proof-Of-Reputation



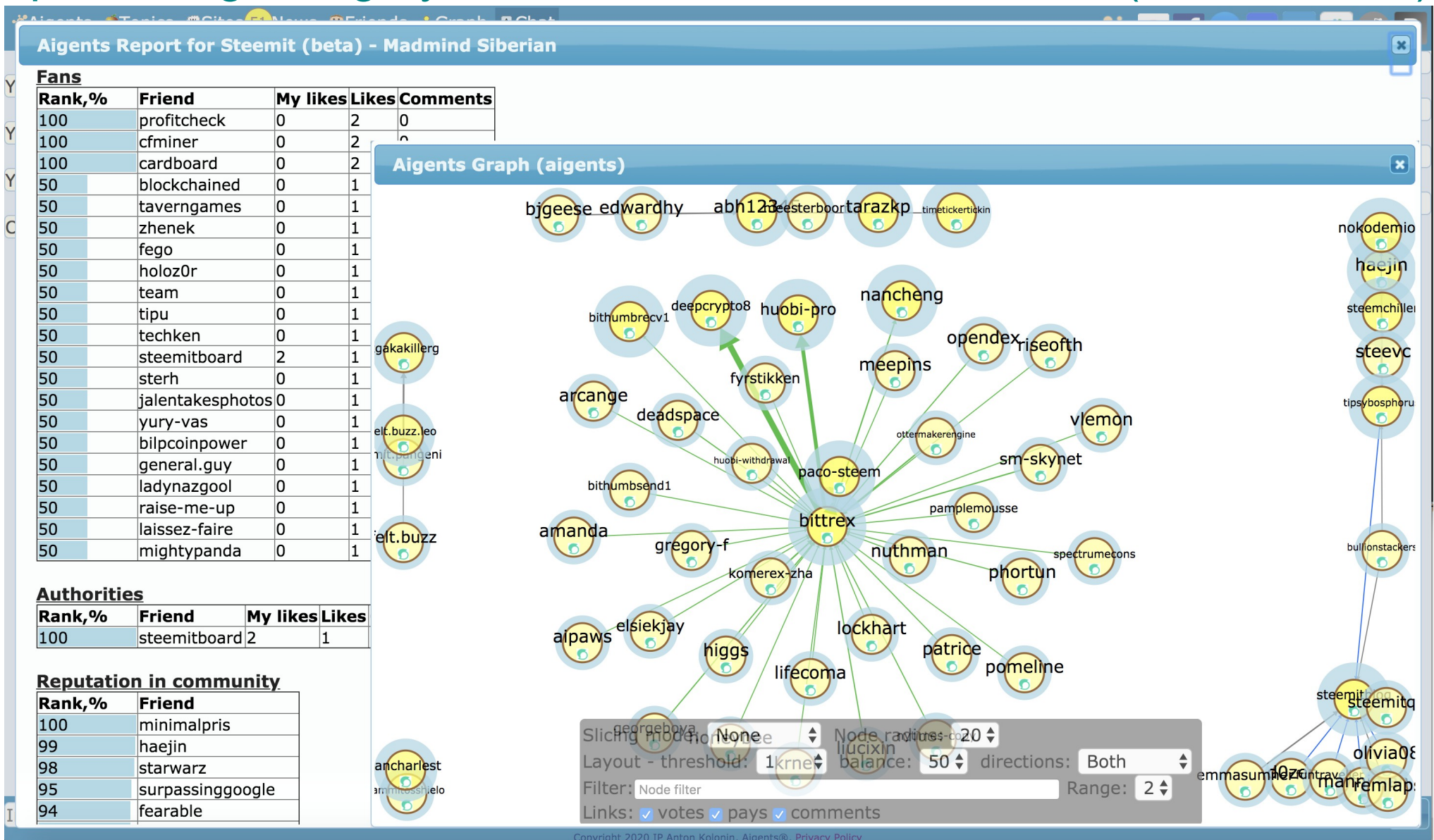
$$R_i = \sum_t \sum_j (V_{ijt} * W_{ijt} * R_j^*)$$

Reputation is Power:
Those who earn a better reputation and a greater long-term audience base govern the network.

Reputation Analysis Domain Model (with derived data)



Case: Assessing Reputation in large-scale communities based on “weighted liquid rank” algorithm implementing concept of “liquid democracy” to find true opinion leaders, preventing scams reputation gaming by means of “decentralized KYC” (Steemit data)



Reputation System for Marketplaces:

Using Reputation System for protection from scam identifying dishonest suppliers.

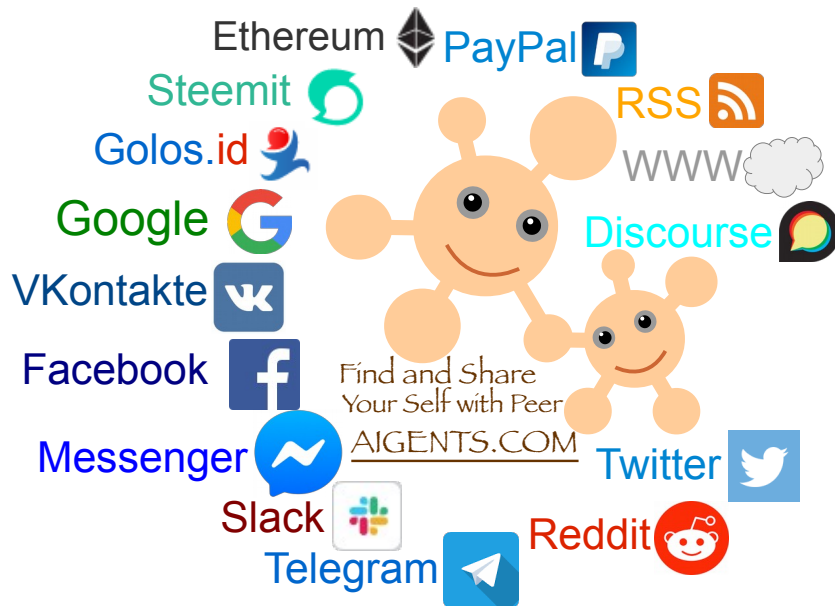


Using “Liquid Rank” Reputation Algorithm

Ranks of Suppliers, dishonest Supplier (including alias) in red and honest suppliers in blue

Aigents® Open Source Platform

Social and Media Intelligence for Business integrates heterogeneous social and online media sources, blockchains, and payment systems, coupling them with artificial intelligence to find and track changes in the field of information to let its force be with you.



Personal Artificial Intelligence serves as a magic glass and crystal ball in the world of social and online networks to recognize people's preferences, find what they need, and help managing their connections.

Thank you! Stay in touch...



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