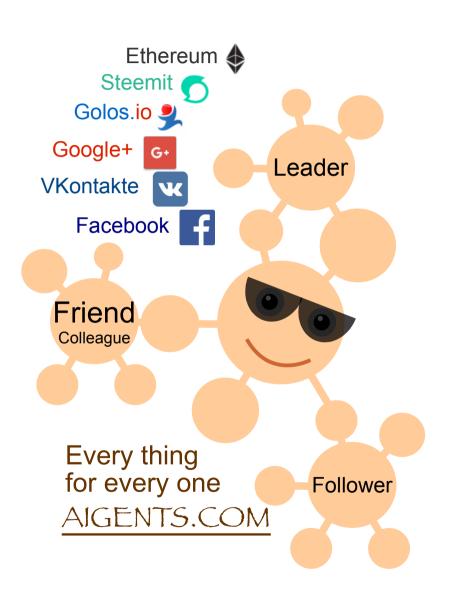
Personal Social Analytics



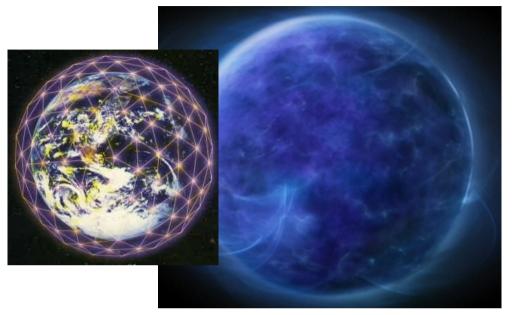
Reputation Analysis for Social Computing

Anton Kolonin akolonin@aigents.com

Standing Questions

- Does one feel like being a part of huge, planet-size computer, performing some unknown task?
- Does one want to have understanding of the programs being uploaded to it an executed by us?
- Does one want to have a bit of control over the tasks being executed?

What is the nature of Intelligence?





Self-aware being evolved in the course of development interacting with surrounding environment, like thinking ocean "Solaris"?



Phenomenon of cooperative behavioral patterns evolved in the course of social collaboration between multiple individual entities?

Human Brain and Human Community

~80 billion neurons,

~16 – in neocortex

~8 billion people on Earth,

~3.5 – connected online

~100 m/s - speed of neural signal ~30000000 m/s - speed of transmission

electromagnetic waves

~1 ms – time to transmit signal between brain hemispheres

~100 ms – time to transmit signal between earth hemispheres

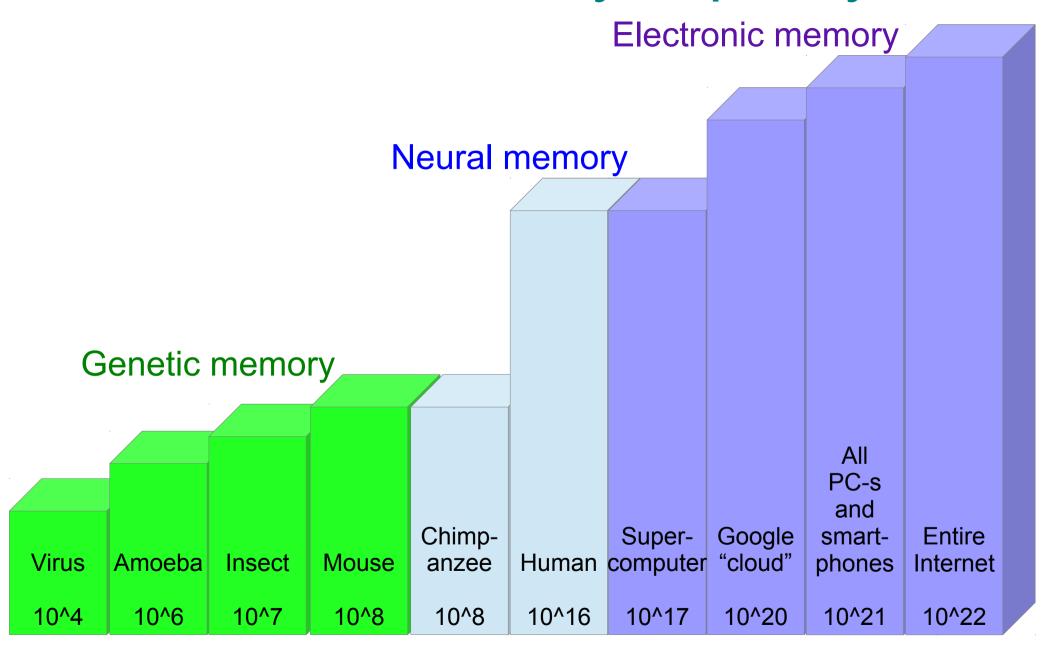
~1 ns – time to transmit signal between columns in the cortex

~1 ns – time to transmit signal within data center

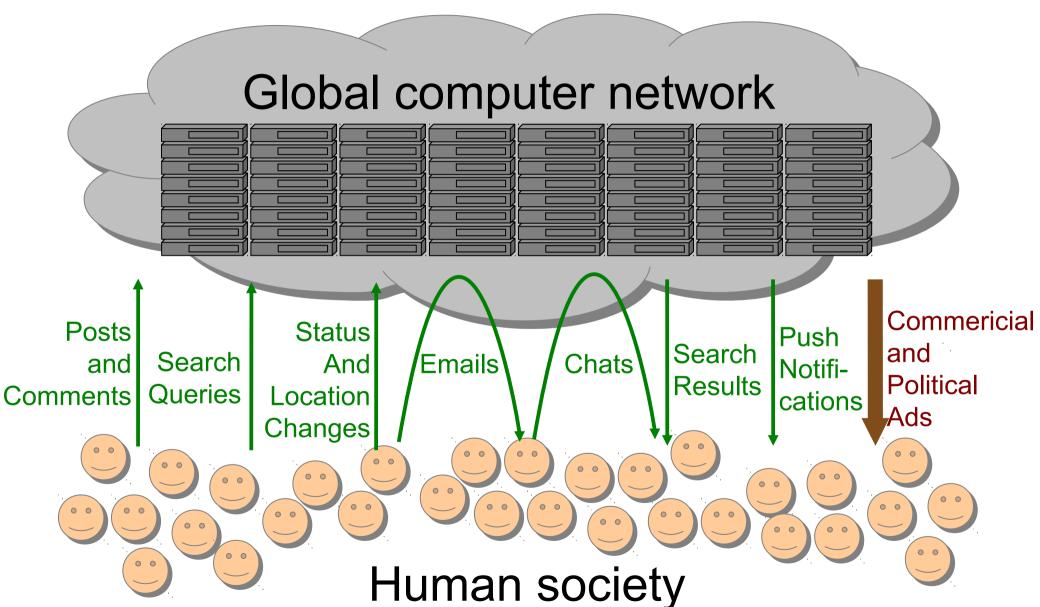
Control roles of cells in human body is differentiated to cells of central neural system (~0.2% of total amount) and the rest

Control role of humans in society is differentiated to managing elites (~0.7% USD millionaires of populations) and manageable audience

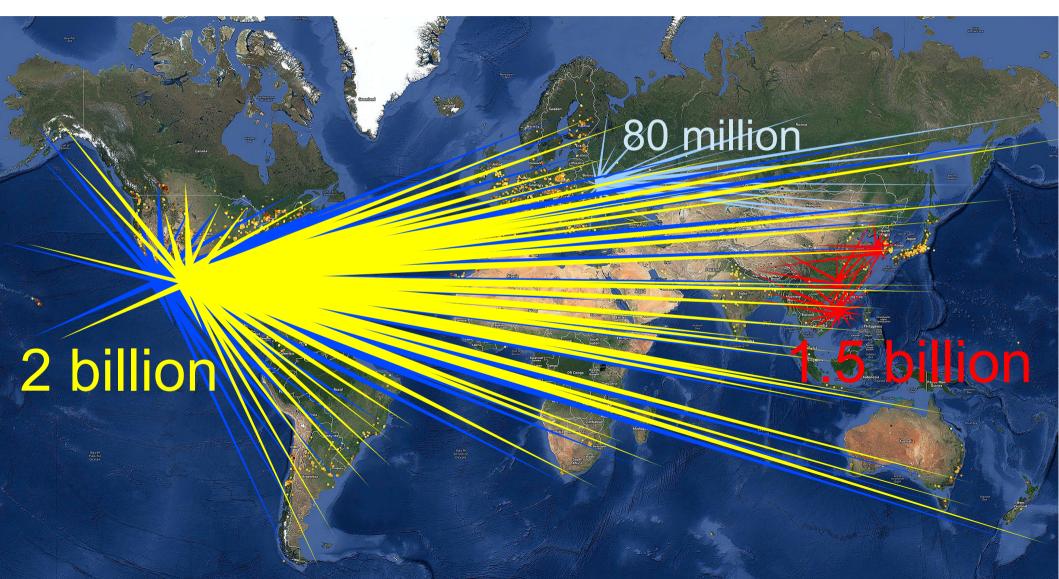
Evolution of memory capacity, bits



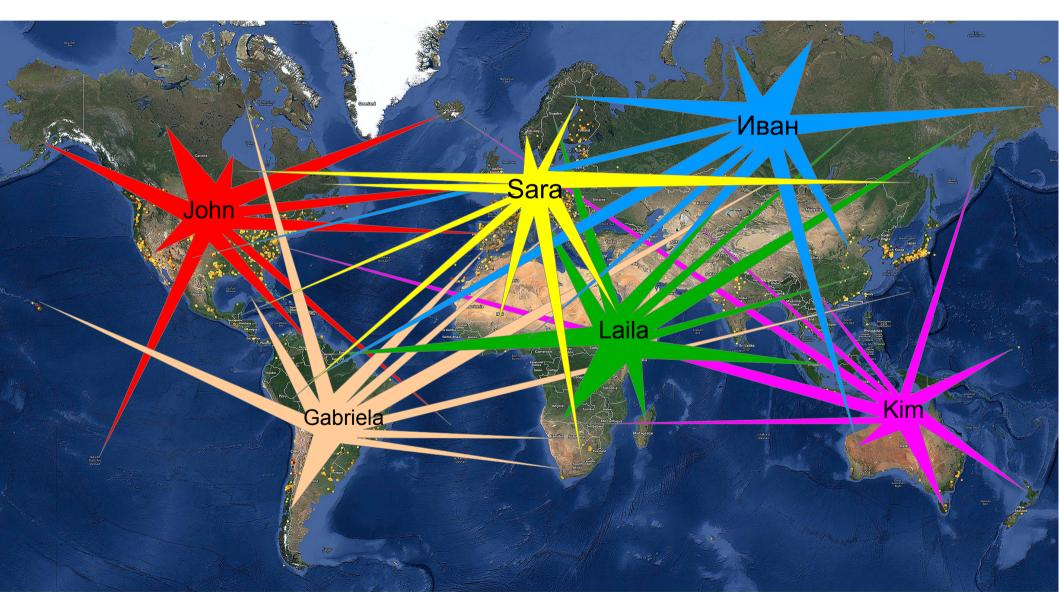
Hybrid human-machine social computer ("global brain") overall architecture



People "monthly connected" to "planetary global brains" Google+Facebook – worldwide, VK – in Russia WeChat+Baidu+QQ etc. - in China



Challenge: provide every user with "personal agent of global brain"?



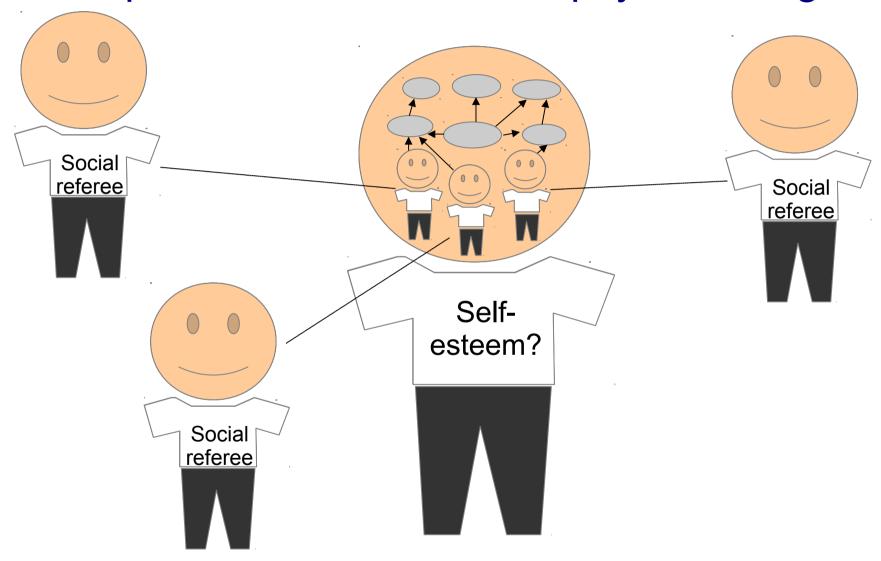
Aigents Social Computing

provides "magic mirror" in the world of social and informational networks to recognize your preferences, let you know your friends and find what you need



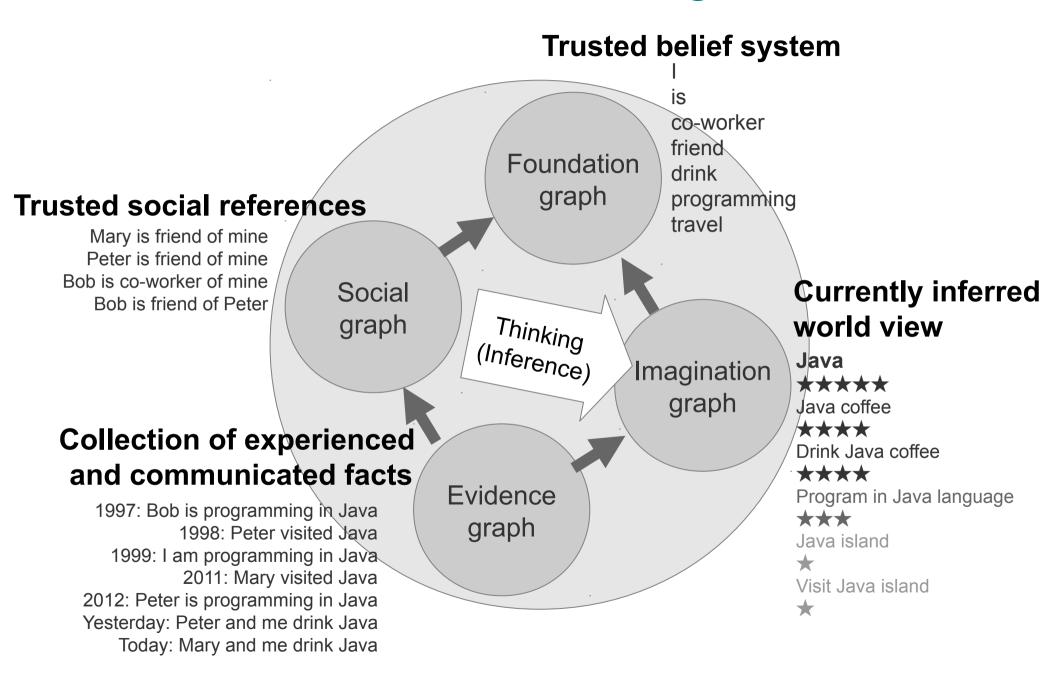
Social Evidence-based Cognitive Model

Compassion-based artificial psyche design

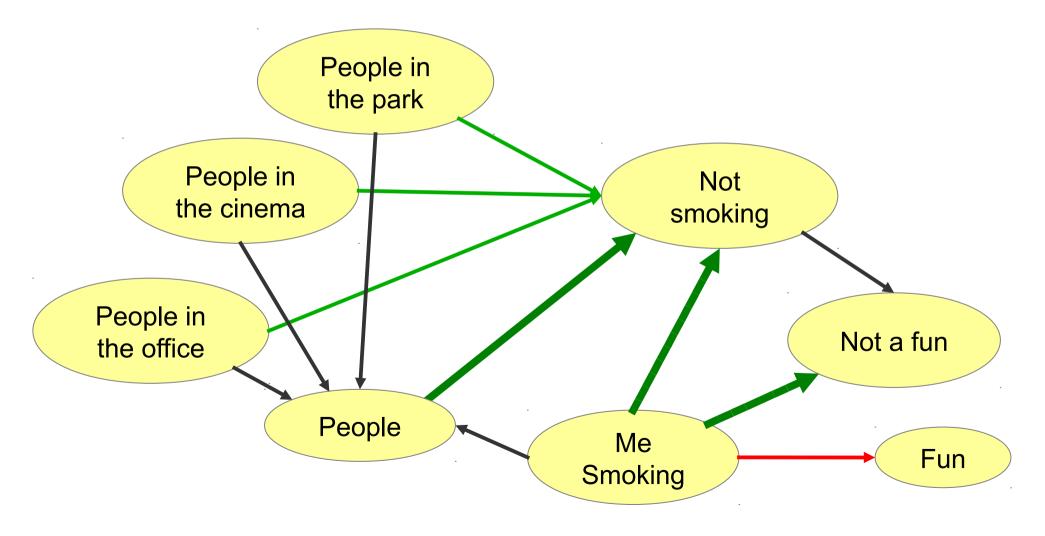


B.Goertzel, A.Kolonin, J.Pressing, C.Pennachin (2000)

Social Evidence-based Cognitive Model



Social Evidence-based Cognitive Model Understanding Social Engineering Method: "Redundant Social Evidence"



Social Evidence-based Cognitive Model Predicting Individual Behavior

Social graph size and efficiency

Socialized Conservator

Socialized Innovator

Egocentric Conservator

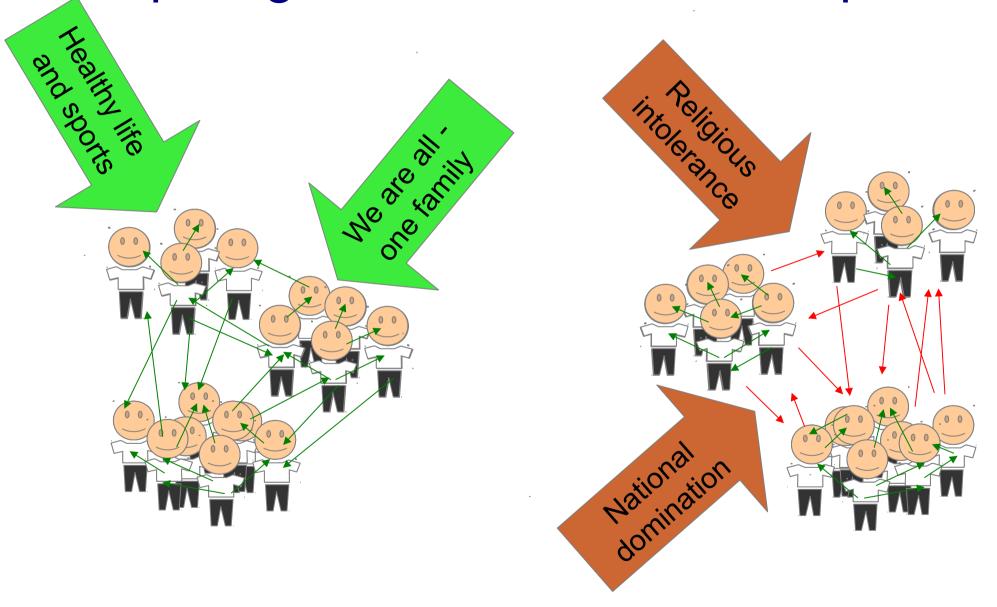
Egocentric Innovator

Foundation graph

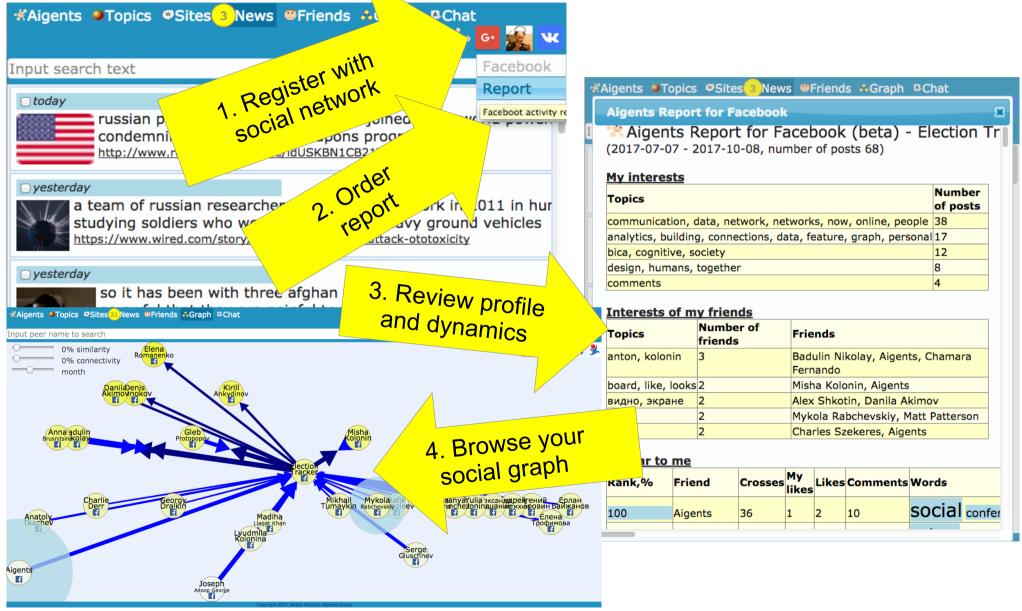
size and efficiency

Imagination graph size and efficiency

Social Evidence-based Cognitive Model Anticipating trends of social development



Personal Social Analytics Start using at https://aigents.com/ today!



Personal Social Analytics Domain Model (original data) **Topic** Me Friend Like, Vote Like, Vote Word, phrase **Post** Use Calendar Comment period

Personal and social analytics - relationships

Best friends

$$B_{ij} = L_{ij} * (L_{ji} + C_{ji}) / Max_{j=1,J} (L_{ij} * (L_{ji} + C_{ji}))$$

Fans

$$F_{ij} = ((L_{ji} + C_{ji})/(1 + L_{ij} + C_{ij}))/Max_{j=1,J} ((L_{ji} + C_{ji})/(1 + L_{ij} + C_{ij}))$$

Like and comment me

$$F'_{ij} = (L_{ji} + C_{ji}) / \text{Max}_{j=1,J} (L_{ji} + C_{ji})$$

Authorities

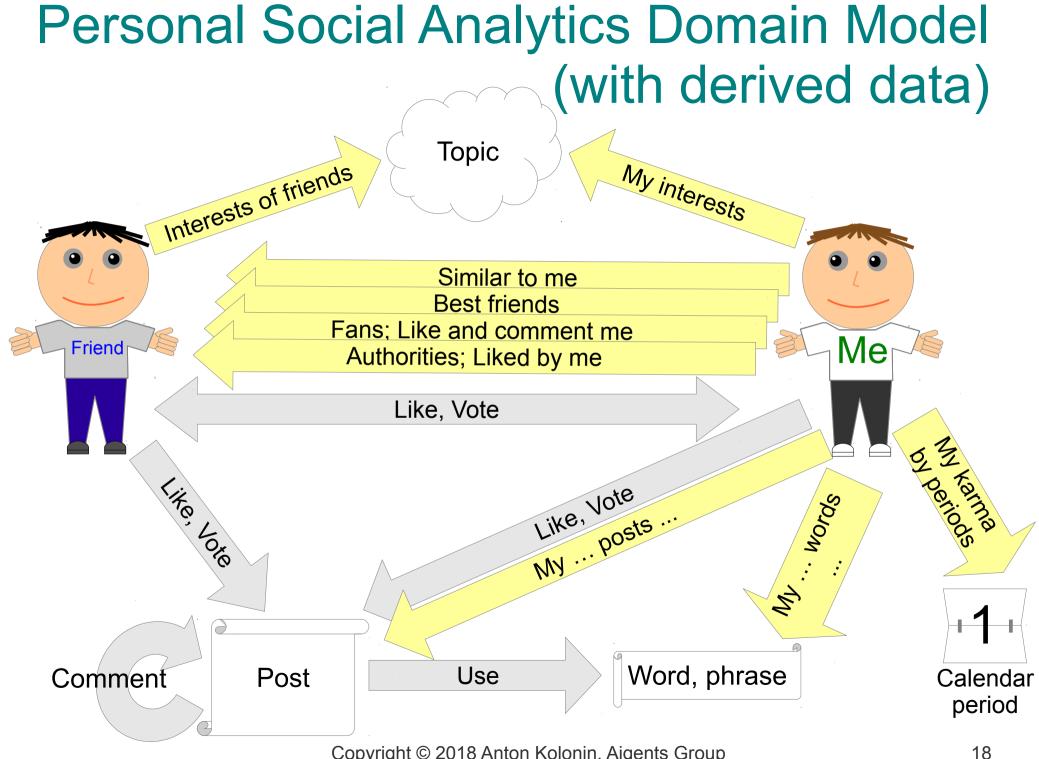
$$A_j = ((L_{ij} + C_{ij})/(1 + L_{ji} + C_{ji})) / Max_{j=1, J} ((L_{ij} + C_{ij})/(1 + L_{ji} + C_{ji}))$$

Liked by me

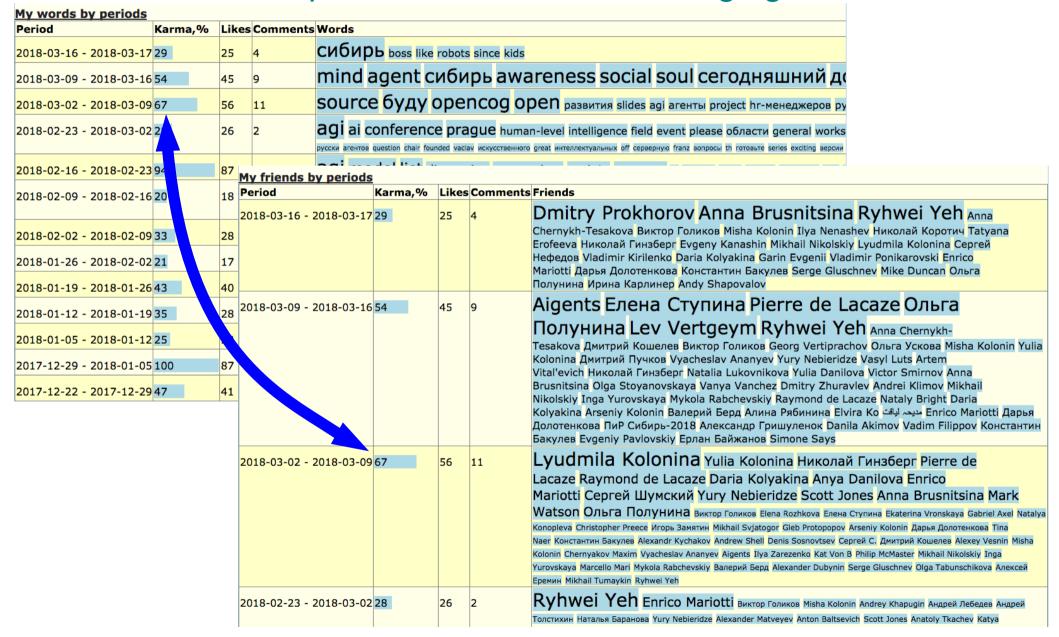
$$A'_{j} = (L_{ij} + C_{ij}) / Max_{j=1,J} (L_{ij} + C_{ij})$$

My karma by periods

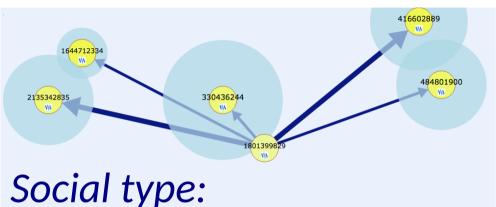
$$K_{it} = \sum_{j,t} (L_{ij} + C_{ij}) / Max_{t=1,T} \sum_{j,t} (L_{ij} + C_{ij})$$



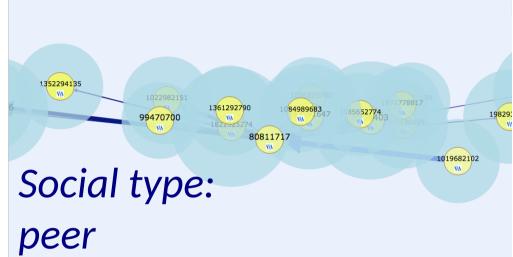
Case 1: Helping users to improve their social capital ("karma") over time, monitoring dynamics of its change correlated with online communications, topics and connections changing over time.

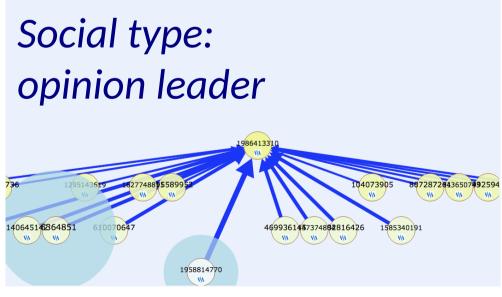


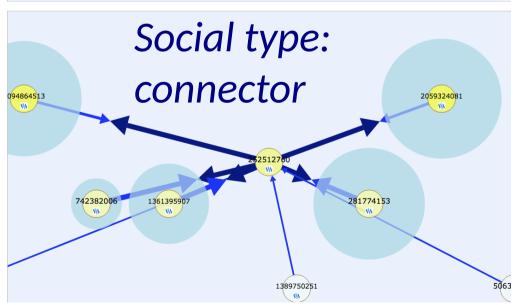
Case 2: Helping users to understand themselves better and perform more efficiently online – using their tracks in social networks and online resources, capture their interests, relationships, communication patterns and social structures.



Social type: follower



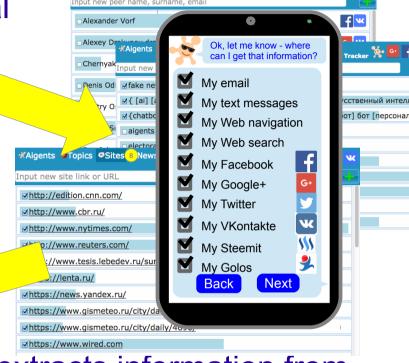




Case 3: Encouraging users to conduct positive and effective communications with partners while guarding users from being manipulated themselves or being offensive to others.



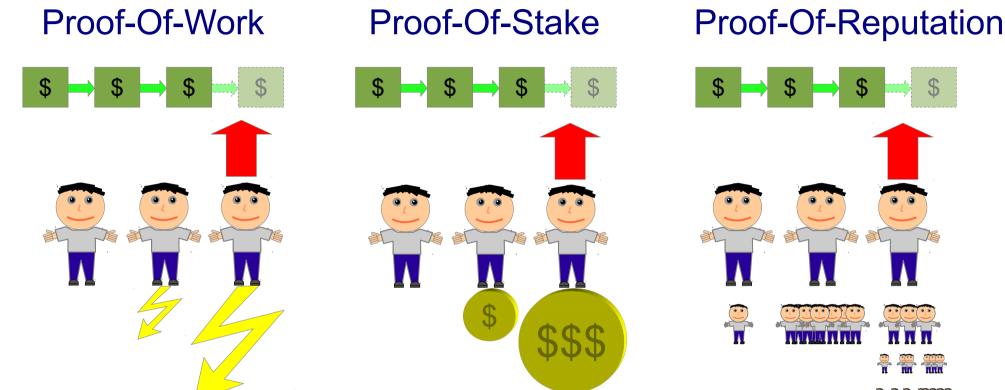
I connect my "virtual agent" to my social networks and communication channels and let it learn about my partners and preferences.

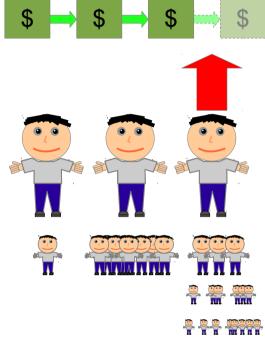


Friends Map Karma Input search text i encourage all of you to use your r o adapt to changes here at home as well. . i ection we do not all feel the same way about the **Noodpecker** http://www.reuters.com/article/newsOne/id yesterday Waterfall/ facebook ceo mark zuckerberg fam e news as a red herring that betrayed a lack of Joe https://www.wired.com/2017/02/trump-ted McLane ✓ yesterday ncluding Okay, Aigents now can be accessib capability to retrieve reports on pe with ability to configure contents of the reports m ect to your personal Aigent living at https://aic means of Since: 05.01.2017 Top: 11 Web user interface) in two alternat https://www.messenger.com/t/aige

"Agent" extracts information from networks and online communications automatically, analyses all posts, comments and messages and alerts once there are important messages coming in or out – encouraging and positive or manipulative and offensive.

Case 4: Providing "proof-of-reputation" consensus for governance in blockchain based systems, resistant to takeover and scam attacks.





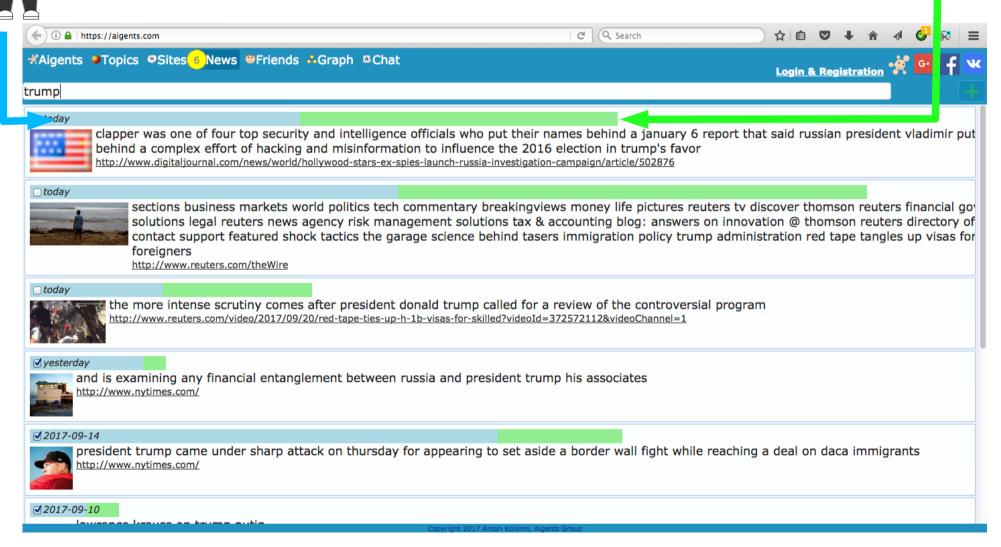
$$R_{i} = \sum_{t} \sum_{j} (R_{j} * V_{ijt})$$

Those who own more computing power govern the network.

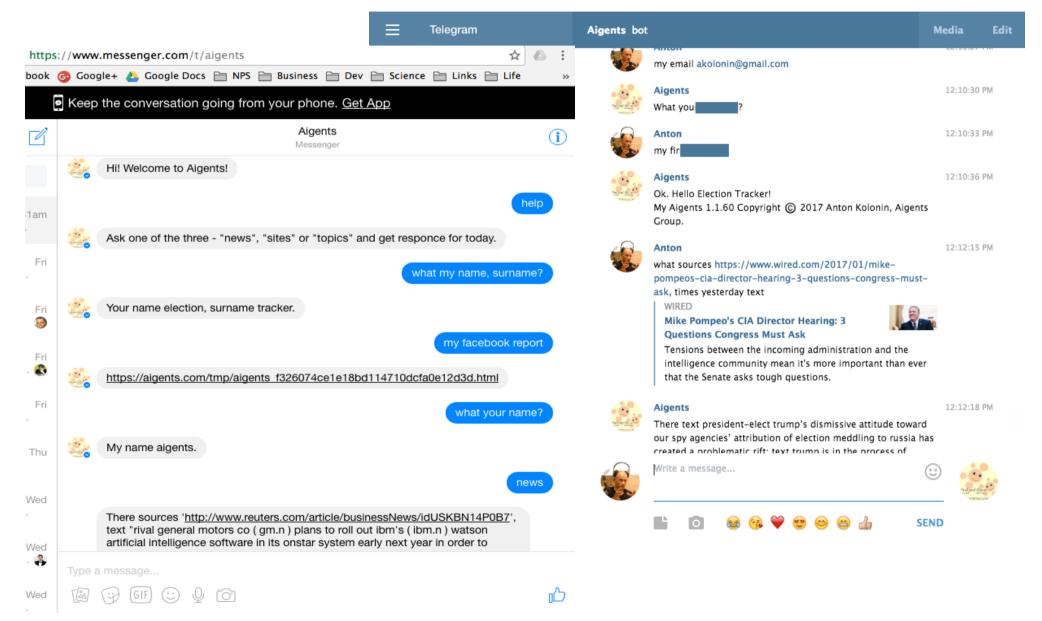
Those who have more money govern the network.

Those who earn deeper reputation and greater long-term audience base govern the network.

Case 5: Highly Personalized News Aggregator monitoring web pages and extracting textual information with account to Personal and Social relevances



News Monitoring and Personal social analytics: bots at Telegram (@AigentsBot) and Facebook Messenger (Aigents)



Takeaways

- •We are parts of world-size machine, computing and redistributing attention, reputation, influence and power of brands, business and physical entities.
- The larger social graph is under control, the more impact on the world can be accessed, yet most of us lack tools of such control.
- •Try <u>Aigents</u> software for personal social analytics and help us to make it better.

Thank you! Try demo:

https://www.youtube.com/watch?v=ORwodfAH2n0



Stay in touch:

E-mail: akolonin@aigents.com

Site: https://aigents.com

Facebook: https://www.facebook.com/aigents

Youtube: https://www.youtube.com/aigents

Google+: https://plus.google.com/+Aigents

Medium: https://medium.com/@aigents

Steemit: https://steemit.com/@aigents

Golos.io: https://golos.io/@aigents

VKontakte: https://vk.com/aigents

Facebook Messenger: Aigents

Telegram Messenger: @AigentsBot