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Präambel (Abstract)

There are only two models of the economy—vertical and horizontal. And if the vertical model has been studied far and wide and continues to be studied in all educational institutions all over the world, then nobody says nothing about the horizontal model.

It's time to fix this situation. Because the vertical model is living its last days, and very soon it must be remained only in the memories.

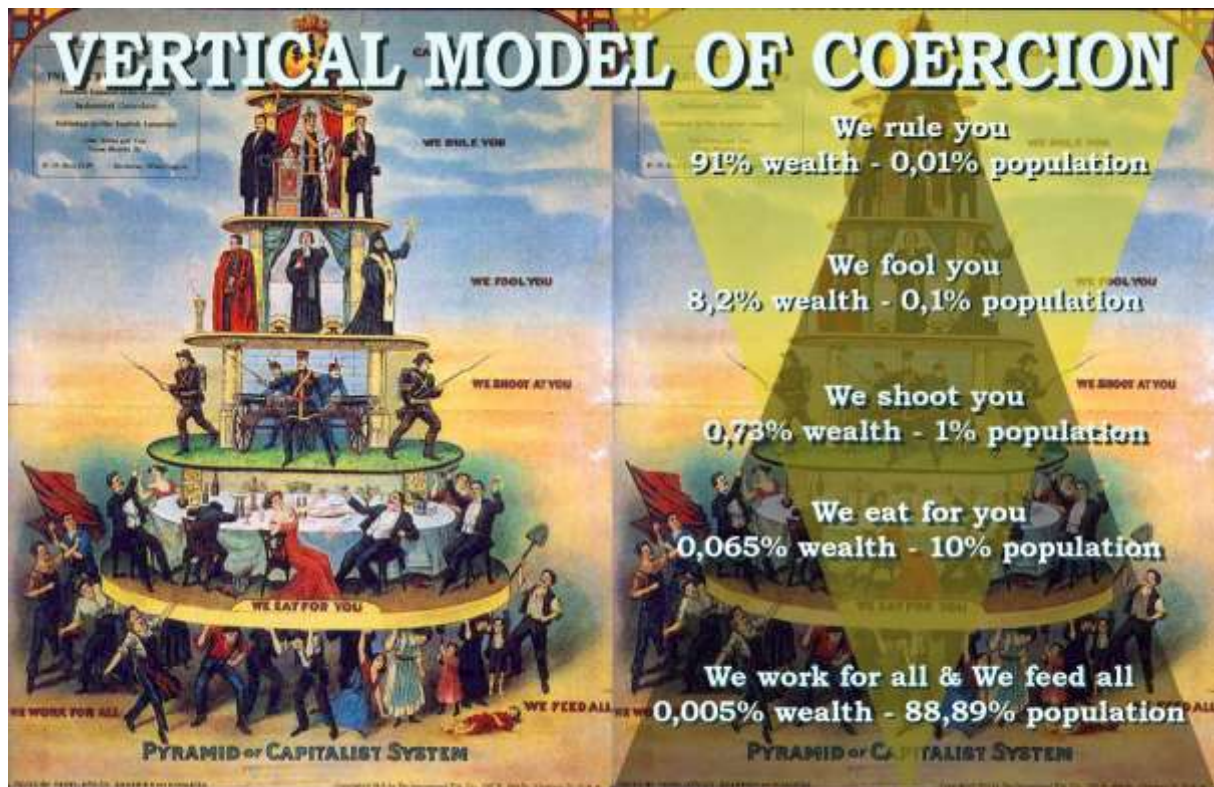
Meanwhile, the transition to a horizontal model of the economy, impossible a couple of decades ago, today is already an urgent need and the only one way to the Knowledge-based Society without any alternative. The fact is that in the digital era, the vertical model as itself cannot be digitized, which will eventually lead it to a final crisis and collapse. With the subsequent replacement with a horizontal model, which is not only much more perfect, effective and fair, but also digitizable.

The transition to the horizontal model will also lead to huge tectonic shifts and a total change of all the components: society, science, money, education, etc.

This very brief description of the concept and principles of the horizontal model of the economy will bring to life very soon the very first prototype in the coming months after this publication, which will show everyone the advantages of the new model. After that, tectonic changes in all areas of our lives will begin to grow exponentially and inevitably like a tsunami, which will lead to a shockingly fast movement into the Future Digital Reality.

Brief description of the vertical model

Before proceeding to the consideration of the horizontal model, we need to understand what the vertical economic model is. And for this purpose the old picture “The Pyramid of Capitalism” will help us a lot :



On the left is the original picture, on the right, the imposition on it of two opposite directional pyramids, meaning Wealth and Population. The gray Pyramid with the base at the bottom means Population, and the inverted yellow Pyramid with the base at the top means Wealth.

This distribution of Wealth within the human society forms the basis of the vertical model of the economy: first, all 100% of Wealth is raised up and concentrated at the very top across the entire width of the picture, and then it pour down like a golden rain according to the basic principles of the vertical economy. We will neither criticize nor justify this model, since it's all done before us.

Horizontal economy model

Here you can find someone who will treat you as you deserve!

In the horizontal model of the economy, all Wealths are fairly distributed among all participants in accordance with the special (selected) algorithm.

The simplest algorithm is to divide all Wealth equally. But such an algorithm is counterproductive.

Another algorithm is to distribute the Wealth according to merit (contributions) to the common cause of each member of the Internet Community. It means that the importance and significance of the merits (contributions) are evaluated by all participants in relation to each other. I.e. everyone can rate the merits only of other participants, but not their own. After that, the result achieved by the joint efforts of this Internet commu-nity is fairly distributed according to the approved algorithm.

For example, an Internet Community worked on a project that brought them a remuneration of \$ 1 million. During the course of the work, the participants gave each other 10,000 likes (or other marks of approval). This means that the “price” of a like was \$ 100, and each participant received as many hundred-dollar bills as he received likes from his colleagues. Everything is simple and transparent. In this case, the total number of participants does not matter—“activists” are important.

There are many projects on the Internet that cannot be implemented in a vertical payment scheme, which is why no one takes them project development. Alone, with such projects also can not be coped—need help from colleagues.

Virtually any scientific or creative Internet Community can at any time organize a horizontal model even under the domination of the vertical model throughout the world by reaching a special agreement between all participants. The most important in this arrangement is the adoption of a method (algorithm) of graduating (rate) each other and taking them into account.

This will allow such an Internet Community to fairly and objectively reward its active participants, distributing among them all the profits (100%) according to the adopted algorithm. In addition to the other obvious advantages of such a fair profit distribution system, there is one more thing: this system cannot be hacked (crushed).

Thus, in the horizontal model of the economy, only the most worthy become the richest, having received recognition from their colleagues. Creating a highly efficient working on-line community with a horizontal model is no longer a problem today, especially thanks to the achievements of recent years, such as Crowdsourcing, Web2.0., Cloud Infrastructure, and others.

Despite the seeming simplicity of the horizontal model, in fact it is a much more complex system compared to the vertical one. For example, instead of the one-dimensionality of monetary equivalent adopted in the vertical model, the horizontal model implements the complexity of multidimensionality. Man is also viewed not as a primitive cog of the system, but in all the richness of the content of his inner world. This comparison of the extreme simplicity of the vertical model and the intelligent smart complexity of the horizontal model gives the latter enormous advantages in the coming era of Digital Reality.

As soon as at least one online community is created with at least 100 participants who want to experience the full power of the horizontal model of the economy on themselves, then it will begin to expand and increase its power like an avalanche in quantitative and qualitative terms. At the same time, community members will initially have to agree to start to do everything from absolute zero, i.e. to take part in the development of the necessary Internet resources and programming algorithms.

As follows from the above, a key factor for creating a horizontal model of the economy is the system and methods for evaluating labor (contribution, merit). Therefore, we smoothly proceed to the description of two rating systems—vertical and horizontal.

Comparison of rating systems in two models

In the vertical model, all phenomena are evaluated solely in a single dimension of money, so this method of assessment, although it seems to someone to be objective, but in fact it is not, because not all participants have the right to evaluate others, but only the higher ones, which makes the system extremely subjective and vulnerable, i.e. corrupt to the full depth (as we are watching).

In other words, the vertical model assumes a single scale of values with its measurements only in one monetary terms. Because of this scale of one-dimensional values, we see the whole world in a curved mirror of profit and lucre. Therefore, we receive answers to any of our questions only in the measurement of value.

We receive remuneration for work in monetary terms—and we do not know other ways of evaluating labor. Even the wish of happiness is also expressed in a same amount—and the more it is, the more “happiness”!

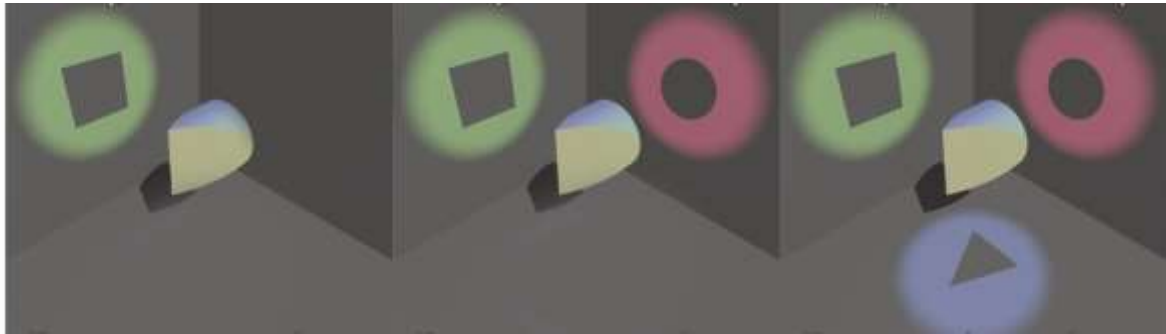
Speaking about a person, we are talking about his "value", i.e. about the amount of his bank account. Any work of art is associated exclusively with auctions and the amount for which it can be sold. Speaking about scientific discoveries, we are already forced to speak only about the profits that it will bring to the corporation or to humanity. There are no more concepts of beauty, admiration or compassion—all these concepts make sense only in the measurement of money.

Do you remember the immortal words of the Little Prince? «If you were to say to the grown-ups: «I saw a beautiful house made of rosy brick, with geraniums in the windows and doves on the roof» they would not be able to get any idea of that house at all. You would have to say to them: «I saw a house that cost 100,000 Francs». Then they would exclaim: «Oh, what a pretty house that is!».



In the horizontal model, on the contrary, the multidimensionality of the assessment allows the most objective analysis of the contribution of each participant to the joint project. At the same time, the more types, methods, and evaluation criteria there are, the more data can be processed, and the smaller the likelihood of random errors and failures that can cause mutual resentment and reproaches.

The figure below illustrates this idea well: the more measurements (assessment methods), the more accurate our ideas about the subject. You can also recall the parable of the seven blind men, which were reasoning about the elephant.



To date, there is still no such system of multidimensional assessment of the merits of each multidimensional participant in the horizontal model, but after the appearance of clear definitions of this system, its very rapid development and improvement will begin.

As an example, I will cite the greatest philosopher of ancient Greece, Socrates, who, according to the vertical assessment model, was below the waterline, since was a homeless parasite. In addition, he was a great chatter and a criminal—a moral destroyer who taught young people to always think with their own head. Therefore, according to the vertical model, his value in society was zero. Unlike his very rich prosecutors, whose names, contrary to their importance in the measurement of money, history for some reason did not keep. Nevertheless, the name of Socrates is known by most of the inhabitants of the earth, and his “chatter” has been studied for many centuries in many countries.

Starting with this simple and well-known example in order to illustrate the need for a multidimensional assessment of Socrates’s contribution to world culture (and not just a single monetary equivalent □), we can gradually move to today's realities and transfer the results from Socrates to ourselves to start creating the first prototype multidimensional rating system.

In some rudimentary form, the rating system today exists in many social networks in the form of likes and emoji of all kinds and varieties. But so far all these emoji are not a serious tool that could be used to create a prototype of the horizontal model of the economy. However, in the absence of anything else, at the very beginning it is possible to rely on the generally accepted system of likes in order to then develop and complicate it into a multidimensional and multi-functional assessment system.

Therefore, having designated the direction of movement in the direction of complicating the system, for the time being I will describe the horizontal model using normal likes or □.

Horizontal model of the Society (Crowdsourcing 1.0. -3.0.)



Vertical and horizontal models of the Society

«Public opinion is an opinion that lacks understanding» (Arthur Schopenhauer)

In the vertical model, the Society is a gray and faceless cluster of «popular masses» consisting of the same gray and faceless cog people. The crowd is controlled and manipulated, it is fooled and deceived.

There is even the expression «Public opinion is the opinion of those whose opinion does not interest anyone».

But if faceless crowds of one-dimensional people were always controlled vertically from above, today Crowdsourcing has emerged, which in principle cannot be controlled from the outside, outside itself, outside its community, therefore it is completely independent, presenting itself as a «thing-in-itself» as a complex living rational organism .

The vertical of power is still trying to throw a bridle on Crowdsourcing and make it work for itself. And while we see only a lot of Crowdsourcing projects that are actually ordinary freelancing, well, except maybe a little bit more advanced. The idea of employers is very simple: thanks to Crowdsourcing, they can save a lot on salaries and not draw up any employment contracts with free human resources.

Thus, a clear contradiction arises between horizontal Crowdsourcing as a phenomenon of the Future Digital Reality with its horizontal model—and the present-day picture. It is because of this inconsistency Crowdsourcing 1.0. just terribly slows down and stupidly stands at a dead end, working at 1-2% of its capabilities. And all this only because Crowdsourcing has not yet had its own program of development and movement towards the goal (there are already □!).

It is important to note that Crowdsourcing today, firstly, is still very dependent on external factors (government, customers etc.). Secondly, he did not overcome the wrong forms of communication within communities (rudeness, persecution, disrespect etc.). Thirdly, he can't grow out of his own kid's pants in any way, tackling some small minor tasks—because no one has ever posed in front of him the really serious global problems with which he could easily cope. Etc.

Movement from Crowdsourcing1.0. to 2.0.

When Crowdsourcing1.0. will no longer tolerate rudeness and helpfully support the vertical model for money, finally starting to engage in its own projects and become financially independent—only then will it take its first step towards Crowdsourcing2.0.

Signs of Crowdsourcing 2.0.:

1. The emergence of sustainable Internet Communities with regular participants, developing many projects, rather than disintegrating immediately after work on a single project

2. Crowdsourcing2.0. will have full independence from any political, financial, religious or other alien interests, which will make it a de facto Independent Digital State

3. It will be approved ethics of communication within the community on the principle of «Namaste!» respect and attention to each other, and rudeness will fully forbidden

4. The search for a solution to completely different tasks that most people on Earth really care about, such as total youth unemployment, climate problems, incessant wars, etc.

5. The complete replacement of Crowdsourcing's bulls-leaders from People-of-Money for People-of-Knowledge and changing the vector of research from T-shirt design to global youth unemployment, etc.

6. Inside the multi-year sustainable Internet communities working on socially significant projects, there will appear its own financing system based on the horizontal wealth distribution model.

And many other signs

In other words, Crowdsourcing 2.0. already 100% will be the basis for building a horizontal model of human society and become an Independent Digital State governed by People-of-Knowledge.

Let us now turn to the consideration of such a phenomenon as a State, in order to understand what the horizontal State of our Digital Future will be.

But for a start, as usual, we will consider the vertical model of the State, which is still relevant for the time being.

Vertical state model

If you try to define in the vertical model such a well-known and understandable term as State, then you will fail. Because in the vertical model there is no such concept, and if there is, then only if you put an equal sign between the concepts State = compulsory apparatus. Do you think I'm joking? No, no! Let's read Wikipedia:

«A state is a compulsory political organization with a centralized government that maintains a monopoly on the legitimate use of force within a certain geographical territory.

There is no academic consensus on the most appropriate definition of the state.[7] The term «state» refers to a set of different, but interrelated and often overlapping, theories about a certain range of political phenomena.[8] The act of defining the term can be seen as part of an ideological conflict, because different definitions lead to different theories of state function, and as a result validate different political strategies».[9]

Everything is simple and clear. A vertical model of state is simply a purely apparatus of compulsory necessary to “keep working fit” an unnatural vertical model in a certain geographical area. We expected nothing else, so Wikipedia just confirms this.

Therefore, everybody always associate the state exclusively with coercion, repression, punishment etc.

Moreover, nowhere is it said that the state can give something to its citizens—medical care, education, culture, etc. In the vertical model, the state does not give anything, but only takes it away and takes it for itself, using the coercive apparatus for this.

Vertical model of digital state

When everyone today speaks about digital states and cites Estonia as an example, this is about bringing new technical opportunities to strengthen the compulsory apparatus. At the same time, the extremely confident tone and some truly impressive for non-expert people images create the illusion that such is possible.

Particularly impressive are the Chinese projects of total surveillance of their own and foreign citizens, or even more frightening Russian projects to combat dissent, operating with Big Data, etc.

In fact, the truth is that there is simply no principle of a vertical model of a digital state, and there can be no such principle—because not even the most perverse brain of the planet can produce such an unnatural monster.

The concept of a horizontal model of a Sovereign Digital State

And finally, we come closer to the idea of Crowdsourcing's outgrowth upto Independent Digital State.

The idea is very simple: under certain conditions, any online community can create for its members something more than just a party, get-together or an exchange of opinions. I say that the Internet community can build a Sovereign Independent Digital State without a compulsory apparatus and with all the necessary control algorithms.

So, a Digital (virtual) State is such an association of Internet users that will be able to jointly solve for itself the whole complex of problems facing every inhabitant of the Earth:

- Providing comfortable accommodation (dwelling)
- Providing a permanent decent income
- Providing quality medical services
- Pension benefits for the old and disabled
- Protection of every person at all levels
- Getting a quality education
- Providing quality food
- Rescue ecology for a comfortable stay of all human-beings
- Possibility of creative self-realization

The possibility of free expression of their ideas

I can continue this list for a very long time, but the main thing is already becoming obvious: unlike the vertical state, which only takes away, forces and punishes—the virtual horizontal state, on the contrary, protects its citizens and fairly distributes all the riches among them according to the citizens themselves and approved by them algorithms. Thus, the virtual state was conceived in order to create the best and most comfortable conditions for the residence of its citizens not in the virtual, but in the real space. In doing so, the leaders and rulers in a digital state will be the People of Knowledge, not the People of the Money.

The creation of an independent digital state will be especially important for young professionals all over the world who cannot find a permanent job. If, under normal conditions, every person has almost zero chance of finding a job, then there are great opportunities on the Internet for collective work with expensive projects that cannot be mastered using a vertical model, but only horizontally.

Thus, the concept of an independent digital state is as follows:

- New algorithmic form of control and governance
- People of Knowledge — The New Elite of the Digital State
- New science with a horizontal paradigm
- New wealth distribution system
- All kinds of social protection — Etc. etc.

This concept, due to its rationality and clarity, will very soon develop from absolute zero to a state where an independent virtual state can coexist on equal terms with territorial vertical states, protecting its citizens and providing them with comfortable living conditions.

The enormous advantages of an independent digital state will be its complete apolitical and non-religious nature, emphasis on the development of international high-paying Internet projects, transparency, etc. All this makes it extremely difficult to impose any restrictions or even to prohibit the virtual state.

Coexistence of an Independent Virtual State with (inside) the Vertical Economy Model

For some time, a Sovereign Digital State will coexist in our usual conditions with a vertical economic model. This period will be extremely important, since all the advantages of the horizontal model already in this period will manifest themselves in full.

During this period, the core of the future of the Internet community will emerge, which will form a Sovereign Digital State, own capital will be formed and basic algorithms will be developed. The monetary system from simple likes will be transformed into a perfect horizontal model of Future Digital Reality.

The sequence of actions is very simple:

1. A multilingual Internet community is formed around the idea (of this Manifesto)
2. Further, it is converted to crowdsourcing 2.0., i.e. it will adopt the “Namaste!” communication model and create conditions for retaining its members in order to form a sustainable multi-year Internet community, etc.
3. Through donations, the development of high-paying Internet projects, and other sources, the community’s own capital will be formed, not owned personally by anyone but the whole community, and distributed among the participants according to a very simple algorithm of likes.
4. Next, community members themselves will chart the path of movement of this Internet community towards a sovereign digital state.

All these very first steps can be taken within the dominant vertical model of the economy.

As an example of a horizontal solution by the community facing its problems, I want to cite a self-organizing, self-financing cryptocurrency-miners community. In one of the articles about the development of the Bitcoin mining process, the author wrote:

«... The development of bitcoin miners has led to the emergence of specialized solutions based on ASIC. Without any support from large companies. Users self-organized, themselves financed the development of software and hardware, overcame risks and mistrust, evaluated business plans and coped with the task of creating expensive chips with an incredibly small budget. This is an unheard of thing in our time, where the assessment of efforts to create the latest generation of microcircuits begins at \$ 100 million...» (<https://habr.com/ru/company/intel/blog/205554/>)

In the same way that users themselves decided to solve production problems of miners, just as well, all those who wish can create a sovereign digital state for themselves through self-organization on the principles of horizontal economics.

Innatistenburg`s history

If you can dream it, you can do it

Once on one meadow gathered Miserables . These were people who were at the very bottom, at the foot of the social pyramid of the Empire, because they lived on the street or in dirty, damp basements, they had to work hard for pennies and endure hardships and humiliation all their lives. Among them were the most brilliant scientists, the wisest philosophers, the most talented artists, poets and musicians—in a word, they were the People of Knowledge, the whole color of the intelligentsia, the entire brain potential of a huge Empire mired in wars, debauchery, palace intrigues and pursuit of profit. But at the very top of the social pyramid of the Empire were only thieves and prostitutes surrounded by sycophants and lickspittles

So it turned out that all the Miserables, thrown into the trash, had to decide their own fate and survive in this terrible world. Those who broke down and stopped fighting did not come to the clearing and locked themselves in their damp basements. But those who were still full of strength and energy, overwhelmed with creative ideas, came to the meadow in the hope that together they would be able to find a way out of this situation. And the Miserables found this way out! They decided that they themselves would be able to create for themselves a very comfortable place to stay instead of damp basements, where they were driven by need, they themselves would be able to provide their creative and scientific inquiries, obtain new knowledge and reach new creative heights.

Their idea was very simple: they just created a Sovereign Digital State with a horizontal economic model, with horizontal money, and their children were studying in a horizontal education schools!

So the Miserables initially created for themselves a small virtual community, which they called Innatistenburg, which became the prototype of their future Sovereign Digital State. In this community, everything was just like everywhere else: its schools, shops, exhibition and concert halls, scientific laboratories and even its own money! In a word, it was like in “normal” earthly empires—everything except for theft, meanness, greed, murder, stinker, etc. But the most important thing was that the Miserables managed to find a place where no one could interfere with them: they created their own Internet community very high in the Clouds.

Innatistenburg residents or our Target Audience

«Here’s to the crazy ones, the misfits, the rebels, the troublemakers, the round pegs in the square holes... the ones who see things differently—they’re not fond of rules... You can quote them, disagree with them, glorify or vilify them, but the only thing you can’t do is ignore them because they change things... they push the human race forward, and while some may see them as the crazy ones, we see genius, because the ones who are crazy enough to think that they can change the world, are the ones who do». Steve Jobs

Here is far incomplete list of the categories of Innatistenburg residents:

- People with brilliant ideas who do not want to introduce them because of the unwillingness to help the Empire;
- People with brilliant brains, forced because of their genius to work in the most humiliating and low-paid places;
- Unemployed university students and graduates;
- Workers of intellectual work, dissatisfied with all what they have to do, as well as their superiors, working conditions, salary, etc.
- All who have penetrated deep into the essence of the very idea of the city of Innatistenburg and who want to enter the Community of Miserable People of Knowledge as early as possible;

And a great many other namesless.

Innatistenburg's honorable inhabitants were the first Miserables, who gathered in the meadow that night and then founded this transcendental virtual city for themselves. The entrance to Innatistenburg was open to everyone, but only People of Knowledge, Gratitude, Respect, etc. could enter it. All the rest—People of Envy, People of Money, People of Murders were persona non Grata in it.

In fact, People of Knowledge received dual citizenship: in the Empire they remained the same Miserables and thrown into a landfill, while in their native Innatistenburg they became honorary and respected citizens with high privileges. But the most important thing was that shortly after the creation of Innatistenburg, the People of Knowledge were able to change their social position in the Empire and rise very high up. And it was surprising: after all, they never found a job for themselves in any of the corporations of the Empire and continued to remain in it all the same outcasts.

Revolutionary class in the 4th Industrial Revolution

In each revolution (and even in the digital as well) the most revolutionary class and, accordingly, its engine—is the MOST oppressed and humiliated layer of the population. Today, such a class in Russia is undoubtedly its entire scientific and creative intellectuals.

Let me remind you: the Novosibirsk Akademgorodok is one of the leading scientific centers of Russia, and just the Novosibirsk University is one of the best. Therefore, the position in it is much better than in other, less prestigious and funded universities of Russia. The salary of lecturer professor in Novosibirsk is \$ 20 per month, and associate professor is \$ 15!

Horizontal money model

A brief reminder of the history of money

When people say that the history of money is thousands years old—it seems to many that they are simply being deceived. Because the exchange of seashells does not mean at all what we mean today by the word «money»:

«...In the early 1950's Lorna Marshall and her husband lived with a band of Bushmen in South Africa. As a farewell gift, they gave to each of the women in the band a bracelet of cowrie shells. Cowries are not available in the area, and had been bought in New York. Marshall wondered what that may do to future archeological research in the area.

When the Marshalls returned a year later, they were surprised to find none of the cowries in the original group. "They appeared, not as whole necklaces, but in ones and twos

in other people's ornaments at the edges of the region." The gifts of the cowrie seashells had spread like water through the wider community....» (Bernard Lietaer, «The Future of Money»)

Modern money is the result of a complex process of development and is a superstructure in the exchange system. It is my deep conviction that money is nothing else than ordinary bills that have been given the status of government-regulated securities of banknotes. In other words, the whole difference between ordinary promissory notes and money lies in the minor external details of design and use. For example, government bills of exchange (money) do not contain avizos, endorsements, or other inscriptions—but there is a special design of banknotes with state symbols, protection against fraud, and other attributes unnecessary for anyone to bills of exchange.

It is the history of the money already established to the beginning of the 1st Industrial Revolution to this day that is of interest for a better understanding of the meaning of the horizontal financial model, which will replace the vertical crisis model in the Future Digital Reality.

Industry 1.0. Identity of the value of gold and lists. Originally, the idea of paper money was to replace physical Gold with deposit receipts or gold certificates in order to exchange these deposit receipts for Gold and back free of charge at any time. Modern English banknotes look exactly like deposit receipts, because they have a promise on behalf of the Queen of England ("I promise"). This is an echo of those old times, when the value of deposit receipts exactly corresponded to the gold content:

The first period of the history of money, I marked the sign of equality or complete identity.

Industry 2.0. Parity price of gold and banknotes. During the 2nd Industrial Revolution, the order of exchanging banknotes for gold changed and was no longer an complete identity, but an approximate parity. There were several reasons why holders of gold deposits began to issue deposit receipts more than they accepted for storage:

- The demand for (paper) money far exceeded the possibility of issuing 100% deposit receipts, and such a shortage of banknotes could inhibit the development of industry in the period of rapid industrial development in Europe;
- Paper money was much more convenient in circulation than gold bars, which made the exchange of deposit receipts for gold no longer necessary;
- Increased issue of bank depositors increased lending opportunities and increased bank profits (etc.)

As a result of the issue by the Bank of depositary receipts in circulation for an amount exceeding the value of the gold deposit in them, the concept of “nominal value” or “gold content” of all the money issued by them appeared:

Gold Content / Deposit Receipts = Parity of Banknotes

The decrease in the gold content in banknotes led to a decrease in purchasing power and money inflation.

This second period of money after the 2nd Industrial Revolution, I noted a sign of approximate equality.

Industry 3.0. 3F-money (Fake-Fiat-Fictitious) or Jamaican money. After 1971, the United States, which stockpiled more than 80% of the world's gold reserves, refused to provide gold for its dollar («Nixon Shock»), after which the world economy was threatened, which is growing like an avalanche every year. Money has completely lost touch with reality and turned into “three F” (Fake-Fiat-Fictitious) or “money without any obligations”. The relative value of money is now determined by infected bots and all viruses of the so-called "Free" market FOREX. The only cover (providing) of money is the fingers click with the pronunciation of the magic formula “Let it be” (from Bible «Genesis» 1:3 “Let there be light!” Fiat Lux)

I marked this third period in the history of money in which we live, in the epoch after the 3rd industrial revolution, as a sign of inequality, because money has ceased to have any value and is in a state of permanent free fall.

Industry 4.0. 3D money. During the 4th Industrial Revolution, there will be a mild transition from a vertical to a horizontal monetary system after several increasingly severe financial crises and upheavals and the emergence of a “safe haven” in the form of the financial system of the sovereign digital state Innatistenburg.

I marked this fourth period in the history of money with the sign of the heart of Namaste! and 300% security as 3D horizontal money.

Vertical and horizontal models of money

The difference between vertical and horizontal money is very simple and is enclosed in a plus or minus sign relative to the percentage of invested capital.

If the plus sign, i.e. over time, the invested capital grows, because of which it is profitable to save up capital and keep it motionless, taking capital out of the economy, or giving it back to growth at a high percentage—this is a sign of vertical money. Vertical money is destroying the economy and impoverishing the lower class.

If the minus sign, and over time, the invested capital “melts” (decreases), which is why it is profitable to constantly return it to circulation, thereby reviving and filling the economy with capital, which leads to an economic boom and an increase in the standard of living of all layers population, especially middle and lower - is a sign of horizontal money.

Simply put, the vertical model of money contributes to the accumulation of money at the top, emptying the lower floors, and the horizontal one—on the contrary, overwhelms the entire horizontal line with horizontal money in abundance.

And the same story is repeated again—we all know vertical money too well, as if there is only one vertical model in the world, and we know absolutely nothing about horizontal money. Well, it's time to fix this situation, because the search for a horizontal financial system has been undertaken repeatedly, and Bernard Lietaer describes several cases in his books when, in times of crisis and lack of money, people themselves solved their problems by creating horizontal alternative money. But until now, they were considered as isolated cases within the vertical economy, which is why they could not take root.

In order for horizontal money to take a worthy place and replace vertical ones, it is necessary to change the vertical model of the economy to the horizontal one, and at the same time all other vertical models to the horizontal ones. Only in this case everything will be harmonious.

And a few words about bitcoin. Although all cryptocur-rencies appeared as if in a horizontal model without the participation of the power vertical and, as it were, even in

opposition to it, nevertheless, they cannot be called horizontal money, they are created from above and go through all the stages of ICO for vertical money, and they are just as adapted to FOREX as the other vertical money, and have many other signs (speculativeness, volatility, fakeness, criminality, etc.). And this is against the background of the ever increasing cost of useless hypercomputation for mining. At the same time, we are well aware that cryptocurrencies are still a step forward in relation to the semi-feudal system of outdated paper fiat money.

It is obvious that the new horizontal money in Innatisten-burg will incorporate all the achievements of cryptocurrency, alternative money systems, money with a demurrage (with a negative percentage), the system of likes suggested above, etc.

When the first sustainable Internet community Innatistenburg emerges, which will be able to solve global issues, then the question of creating a new truly powerful horizontal financial system of the new generation for the Future Digital Reality will arise very sharply. And then the development of a new global financial system will not be the lot of clever eggheads like Satoshi Nakamoto or Vitalik Buterin, but the work of a huge harmonious team of thousands of geniuses. By that time, the main criteria that horizontal digital money should have in Future Digital Reality will become more or less clear.

Desirable characteristics of Internet currencies

I propose that the following five characteristics would be desirable for Internet currencies for use by virtual communities:

- efficient and secure in an electronic payment system
- convertible into local expenses (i.e. answering the key question: how can I use credits earned on the Net to pay for my food and daily needs?)
- .
- non-national (one key characteristic of the Net is its lack of national boundaries while national currencies are specifically designed to foster national consciousness. Why should a German buying a product offered by an Indian company on the Net have to pay in Deutschmarks, dollars or rupees?)
- self-regulating on the Net itself
- supporting the creation of community

Horizontal Education Model

Education system in a vertical model

In the vertical model, the student himself as a participant in the learning process has no value, but only the prestige of the educational institution, awards and titles of teachers, and so on, has an exceptional value. Therefore, all education ultimately boils down to paying tuition bills and obtaining a more or less prestigious diploma, which should provide the offspring-descendant with a dust-free workplace.

In other words, in a vertical model of learning, only a diploma is important, but not the knowledge behind it. They even say about one of the universities: “A Lot of Honor and No Education” (MGIMO), reflecting in fact the big picture. This also applies to the best universities in the world!

Seth Godin, author of “Stop Stealing Dreams”, explains the introduction of universal education for the masses in the United States 100 years ago:

«...Part of the rationale used to sell this large-scale education was the idea that educated kids would actually become more compliant and productive workers...

...Large-scale education was not developed to motivate kids or to create scholars. It was invented to churn out adults who worked well within the system...»

Padishah Akbar's educational experiment

In order to better characterize the vertical model of education as a system of such a distribution of Knowledge, in which the "superior" have access to more Knowledge than the "inferior", I will briefly retell the main idea expressed in the book by V. Kandyba.

According to legends, in 17th century the Indian padishah Akbar conducted a cruel experiment: he ordered to isolate several healthy children in separate rooms with gray walls without windows and entrusted the deaf and dumb servant to care for them. That is, normal healthy children were completely shut down all the channels for obtaining information.

And when, seven years later, people entered these rooms, they saw human-like animals that lacked consciousness and speech. They did not walk well, crawled, uttered meaningless sounds, as these children were not allowed to develop physically, mentally and physiologically. Despite subsequent long-term attempts, it was not possible to humanize them.

Informational hunger for a child from the first months of life means a complete stop not only of intellectual, but even of his physical development. There are Mowgli children brought up among animals who also could not adapt to life among people and stopped in their development at the level of 4 year old children.

However, in the urban jungle, education is not far removed from the "Book of the Jungle", because the vertical education system does not encourage a high level of education for the lower classes. The barriers are so high that it's almost impossible to break through them, which is why most slum dwellers turn into Mowgli or "Akbar's babies" with extremely low IQ levels.

Especially terrible for children is the loss of the first few years of life before school, and informational constant hunger immediately after birth condemns children from poor families to intellectual apathy and underdevelopment.

Horizontal Education Model

In the horizontal model of education there are no concepts of teacher-student, but everyone learns, gaining Knowledge from each other through discussion and communication, and this form of education turns out to be much more effective than the vertical one with a lonely standing teacher in front of a huge audience of students, and telling them some abstruse of truth.

Vertical and horizontal education models

Today, the use of Crowdsourcing for Education is being discussed more and more, but there are not yet any cardinal solutions, because all educational reforms come down to saving (reanimate) the dead vertical model.

I propose to change the very model of education from vertical to horizontal by immersing children in the most saturated information and creative environment from a very early age, almost from birth.

First, I will describe this most oversaturated information-creative environment, and then I will give a justification for just such a form of education.

My description will be based on an educational experiment that I propose to carry out.

Suppose there is a medium (i.e. not large, not small) empty hotel with 50-60 rooms, in which there are no guests.

From shelters choose 5-7 orphans at the age of 6-8 months, and their adoptive family settles with them in this hotel.

To create a multilingual and multicultural environment we'll invite 30-40 young volunteers from different countries—speakers of the world's most important languages from different language groups and cultures. In total, there will be 20+ languages of approximately 7-8 most important language groups.

Every day, all children are placed in one or another language and cultural environment, which they will eagerly absorb like sponges, which will result in these children mastering all 20+ languages at the mother tongue level with the same in-depth understanding of all cultural differences. Under the "cultural environment" refers to the manner of communication, folk dancing, cooking (O, that smells of food !!), etc.

To do this, each volunteer turns his room into his miniature country, where everything—paintings on the walls, household utensils, clothes, food, plants, etc.—creates the illusion of finding his guests in his homeland. Moreover, some volunteers can help each other, dressing on the day of another culture in the clothes of their fellow man and thereby helping to create extras. If it is a rare language (for example, Tibetan), the extras can be mute (silent). Besides we can group rooms by floor-region: for example, 2-3 "European floors" with Germanic, Slavic and Roman languages, "Indian floor" with Indian languages and Farsi, "Far Eastern", "Altai", etc.

As long as children are very small, their absorption of languages and cultures will not present any difficulties—quite the contrary, they will be very, very interested, because children at this age are a sample of the greatest researchers. In addition to the multi-lingual and cultural environment, children will also be involved in a multi-creative environment: dancing, music, painting, literature, etc., where in addition to national differences there will also be different techniques for extracting sounds from musical instruments, different techniques of painting with different materials in different styles, a variety of dances, etc., genre differences, and many others.

At the same time, in game form, they will learn to write all letters in all alphabets and read in all languages 20+. Even if not all letters—but it is important that they have no fear of any new writing.

Mathematics and programming will be introduced already at the age of 1.5-2 years with the development of computers (today all children in wealthy families start their acquaintance with gadgets at this age). The main difference between "our" children and "wealthy" children is that if "wealthy" children are presented with gadgets to get rid of them,

because of which children play Pokémon all day long, then “our” children master gadgets with the exact opposite goal—for Knowledge, the study of the world around them and spiritual enrichment. In other words, children are taught not just to poke buttons, but explain how the commands are executed by these buttons and why they are needed, and which huge incredible possibilities are hidden in this micro gadget.

Of course, children will be surrounded by animals and plants, and they will receive lessons in love for Nature through the Knowledge of its secrets. Or the Knowledge of the secrets of Nature is based on the love of all living beings. Children will talk with talking birds (parrots and crows), admire fishes, take care of flowers and plants, etc., to become part of Crowdsourcing3.0. (Noosourcing).

Similarly with scientific disciplines (chemistry, physics, astronomy, etc.). The research spirit of “our” children will be fueled by their Thirst for Knowledge and their aspiration for all new discoveries.

Further. Their physical training according to the formula of the Ancients will stand in a special attention place: “in healthy body—healthy mind”.

It would be superfluous to even mention that the manner of communication with each other in our hotel will be based on the principle of attention and respect named “Namaste!”.

In addition to 30-40 volunteers (1-3 volunteers for each language), living in the same hotel with a foster family and their 5-7 foster children, a virtual multilingual Internet community should also be formed a year after the start of the experiment (the so-called “Wisdom of the Crowd”) in order to further condense the already oversaturated information environment. After the children learn the gadgets and the very basics of programming, our virtual Internet community will meet “our” children on the Internet and at first will replace all other sites. When the children see the infinity of those opportunities for the extraction of Knowledge that the Internet has, they will not play Pokémon and other games—they will rush to comprehend the Undiscovered!

Children will throw up with their own questions to everybody—and to answer all their questions we’ll need the help of a virtual Internet community of volunteers of at least 1,000 professionals! Each question from children will be considered from all sides, and children will receive not the “correct” unambiguous answer, as is customary in vertical education, but a great many variants, and hot scientific disputes and discussions will flare up between the opponents because of the need to protect their own opinions in scientific disputes. Socrates taught about the great educational role of discussions and collisions of opinions for students. Thus, children will be immediately involved in deep scientific discussions, due to which their interest in scientific knowledge of the world will only increase.

And finally. The remaining 10-20 rooms of our hotel will be reserved for guests who want to come and see everything with their own eyes—and, if desired, even take part in the experiment.

So, very briefly, I described that supersaturated information-creatively environment in which the first 5-7 orphans from 0.5 to 7 years old will be immersed.

Unlike astronauts, who experience enormous overloads during training sessions, immersion of infants in such a maximally saturated information-creative environment will not only not be critical for them—quite the contrary! These babies will harmoniously evolve into the comprehensively Developed People of Knowledge of the future Knowledge-based Society. They will know all (or almost all) languages of the world at the mother tongue level, play musical instruments in all techniques and genres. Draw with all materials and work in

volume, dance and sing, invent and explore, mine Knowledge from the Internet and conduct scientific discussions at the highest scientific level—not only with deep knowledge and understanding of the subject, but also with deep respect for your interlocutor and opponent .

And when other children, who by the age of 7 have only the sad experience of many years of playing around in games and the inability to read and write, “our” children will be fluent in writing in 20+ languages and know much more than all universities programs. In other words, when other children just begin their education, “our” will just finish it.

8 Advantages of a horizontal education model in a supersaturated information environment:

1. Discussions. Socrates spoke about the enormous educational role of discussions and the clash of opinions for young people. Such discussions in the spirit of “Namaste!”, The ability to listen to the interlocutor and understand the meaning of what he says, acknowledging that he was right, or having managed to convince him not with his fists, but with rigorous arguments, etc.—all this is contained in the debatable component horizontal education model based on crowdsourcing.

Discussion, as the most important feature of the horizontal model of education, asserts a new type of Knowledge—strictly scientific, with a huge evidence base, integrated into equally strictly scientific theories.

2. Relativity. Education ceases to be tied to some scientific dogmas and authorities, approved not by scientific argumentation, but by force of arms.

It is precisely the relativity of education that completely depreciates all the “indisputable” opinions of all the “founders of all-conquering immortal teachings” in totalitarian states. This relativity together with “Socrat's irony” erects true scientific theories, not teachings, affirmed only on compulsory.

Moreover, relativity allows everybody to listen to all opponents and participants in discussions with all their theories and opinions (in online mode, the number of participants in discussions is not limited to anything at all), and not according to the rules approved by someone's lists, etc.

3. Redundancy. The modern vertical education system gives Knowledge extremely metered, gradual (who and why came up with these steps?), for some stupid manuals, approved tens and hundreds years ago. In contrast, in the horizontal model, Knowledge is maximally abundant when immersed in a supersaturated information and creative environment.

4. Dynamism. As all the new possibilities of Crowdsourcing are applied in comparison with the old frozen crystalline education system that has not changed for centuries, the horizontal education model will lead to the rapid development and revision of all education systems. Children will not be tied to any curriculum, training manuals, and all that today holds back their movement forward to the Knowledge of the World, but their scientific interests and preferences will be determined only by the areas that they choose themselves. It is the absence of barriers to the dynamic development of educational processes that will create all the necessary conditions for the entry of mankind into the Knowledge-based Society.

5. The possibilities of conducting their own scientific researches by children almost from the moment they master their computer through Crowdsourcing will make of them research scientists and pioneers (pathfinders). Children will be involved in constant brainstorming, research and discussion.

6. Freedom of Choice. Children themselves choose the subjects of their research, their development, their interests — after which they will be able to dive into the chosen areas as deeply as possible. And much deeper than “normal” people who have constraints in all directions of the cognitive area.

Freedom of choice is directly opposite to the modern system of vertical education, since the children themselves know what they want, what they find interesting and what they want to do, without interfering in their choice of outsiders who impose their stupid educational programs on them.

7. Versatility. There will be no divisions in relation to the objects and areas of Knowledge, as they are not in the Universe, and all limitations and divisions are the fruit of the imperfections of human thinking. In the twentieth century, the most important and rapidly developing were new sciences, which formed at the junction of the old — biochemistry, biophysics, etc. And for further movement, we must erase only the last old boundaries between the Knowledge areas that impede movement ahead remained. And the universality of the horizontal education model will help this process.

8. Scaling. i.e. the quantitative expansion and placement of all new children in similar conditions will not create any difficulties—rather, on the contrary, it will reduce the cost of education in terms of one child. Moreover, growing up children will be very pleased to teach their new younger brothers and sisters what they have learned and to devote them to the details of their research, involving the “youth” in scientific discussions. Thereby facilitating adults their duties.

In general, the scaling of the horizontal model seems so simple that, if necessary, it can occur at the speed of the spread of a forest fire. Then, instead of 5-7 children for several years, thousands of people will be able to participate in this experiment.

But as they say, the most difficult thing is to start.

Approximate calculations for the cost of the experiment

I proceeded from the minimum numbers, so perhaps we will have to adjust (correct) them a little.

The cost of a hotel for 50-60 rooms + \$1 million.

The salary of young volunteers living with our children at the hotel will be only \$500—but this is not so little considering the fact that they do not pay for room and board. Total all 40 volunteers x \$500 = \$20,000 per month.

The alimentation of each experiment participant + other expenses (consumables, etc.) I estimate, on average, at the same \$500. So food for all living in the hotel will be another \$30,000. Total salary of 40 volunteers + meals for all 60 participants per month is \$50,000. And the total cost of the experiment for the year is \$50,000 x 12 = \$600,000.

In fact, this is not so much, especially considering that after 2-3 years, when the value of the experience gained and the advantages of the horizontal learning model become apparent, it will be possible to start increasing the number of children participating in the experiment. And if in the first year the education of one child cost about \$100,000, then when scaling this price will quickly fall many times.

So, with an increase in the number of children 6 times to 40, total expenses will increase by only 50% and amount to about \$1 million per year. And then the cost of education and maintenance of one child will fall to \$20- \$25,000 per year.

In other words, we are talking about the fact that in order to “launch” an experiment, we need only \$2-\$3mln, and continuing with scaling allows you to quickly recoup these costs.

And this is impressive: for the introduction of a horizontal education system and the transition to a new training system, no billions of dollars are needed — the resources already available and only a few million dollars are enough to start.

Justification of the horizontal education model

The reality of this project is based on my personal observations, which I want to share with you.

The first. My father knew at the maternal level only 12 languages from 4 language groups. He came from a very rich family, and his parents did not spare money for his training. Therefore, he was brought up with multilingual tutors. And every day they spoke with him in different languages from birth. Hence his knowledge of so many languages at the maternal level. However, he argued that if there were more languages, then he would have no difficulty.

The fact that he painted better than professional artists, was engaged in scientific activities, having the best technical education for his time, was an inventor, you can not even mention—this is obvious. Another thing is that in the post-Revolutionary Russia it was not useful to anyone. But in the breadth and depth of his education and knowledge, he was a Renaissance Man.

The second. Once with one German mom I visited Kindergarten in West Berlin and just sat for about an hour in the corner, reveling in an incredible sight for me: a person of 25-30 children of different ages from very young (1-3 yo) to preschoolers and their older brothers and sisters-schoolchildren with 3-4 adults enthusiastically engaged in creative work: they drew, played various musical instruments, danced, sculpted, collected the railway etc. It was all in a huge room, no one interfered with anyone, children could easily switch from one occupation to another, it was fun for everyone. Adults were not despots and did not raise anyone, they seemed to have turned into small children themselves and, with gusto, sculpted, built the railroad, etc. Nobody robbed away toys from anyone, did not quarrel, did not swear—everything was so harmonious and peaceful that it seemed to show all the advantages of a horizontal model of communication between adults and children of different ages, and it shocked me and left a very deep imprint on my memory.

The third. Everybody is talking now about the excessive lack of knowledge in the vertical education system. One mathematics teacher at a meeting of teachers-colleagues argued that for one double lesson he can go through the material of one semester (half year), and for two double lessons—annual material. Then the whole school course of mathematical sciences (geometry, arithmetic, etc.) can be laid in half a year instead of 10 years, assuming that if the lessons of mathematics are only once a week, then in 20 lessons you can learn all the mathematics. And in the eyes of his colleagues for only a minute he explained the material which was assigned 3 lessons!

He talked about ordinary school and the most ordinary children. The same applies to other exact sciences.

The Fourth. For several years, I myself was a member of an Internet project in Russia, which gained momentum too quickly and went out of control of vertical. After that the project was tough reformatted and brought in line □.

But in my experience of participating in it for first 5-6 years, I built several very important constructions that complement and develop the Crowdsourcing component of my horizontal education model.

The Fifth. Years are not needed to learn to play any musical instrument from absolute zero to virtuoso level! Only a few months from six months to a year are enough. It happened to me when I started to play Etudes of Liszt, Chopin, the works of Rachmaninoff, the hardest transcriptions of Bach's organ works, etc., almost from scratch in few months. Then I began to teach children music—and within two months they had advanced a few years ahead! These were the most ordinary children.

I read about a six-year-old child, that in six months he learned to play the violin from scratch to the level of a virtuoso. On your own! Without the help of adults.

Only an idea of how to do it is needed. No more.

The Sixth. There are many assumptions as to why children after their birth learn languages so quickly—after all, they simply speak and do not learn any grammar. And for the year the children begin to speak perfect and flawlessly. Adults placed in the same conditions may not speak at all for a year.

One of these assumptions is that before birth, children already know all languages, and then they simply “recollect” (remember) the language in which they are communicate with grown-ups. Therefore, if you communicate with them in several languages at once, they will just as easily “recollect” any number of languages in which they will communicated.

The older children become the harder it is for them to learn languages, because they simply «forget» them. Therefore, children in multi-lingual countries, where 2-3 languages are used in everyday life, easily communicate only in them, while the rest are perceived by strangers. One woman from Alexandria told me that almost the entire population there knows 5 languages—English, French, Arabic, Greek, and Farsi —i.e. all people are free communicate on it.

It is clear that the sequel follows, and this list has other next points — 7.8, 9th, etc.

Definition of a horizontal education model

Based on the foregoing, we can already approach the under-standing of the horizontal model of education and try to define it. In the horizontal model of education, all participants in the educational process are on the same level. No one has any advantages in the form of titles, awards and other tinsel, which can be easily bought for money. All are students and teachers at the same time. At the same time, the age of participants in the educational process can be any, since the process of knowledge itself is eternal and endless. All experiments, ideas, materials, theories—in a word, all that our Knowledge is made of—are analyzed and criticized, studied and tested, protected, confirmed and refuted. All this together makes up a horizontal model of education.

The learning process itself begins from the moment a child learns the basics of computer literacy and gains the opportunity to independently enter the Crowdsourcing learning platform to become its active participant. When he masters enough in this Internet environment and learns to mine (extract) Knowledge from it, then his training will take place on its own accord, but according with his abilities, peculiarities of thinking and interests

As preparation of all children of the Future for such a mining of Knowledge from the Network, it is possible to create for all children the above-described saturated information and creative environment so that children of the Future have a starting education, and then children themselves can easily navigate the information spaces of the Future. It is much cheaper and simpler than today's preschool and school institutions, where they are only tortured and forced to learn all sorts of nonsense. And few people have pleasant memories of school afterwards.

It is also possible to rank participants of online discussions by experience like drivers, and small kids aged 2-5 years should be marked with a special sign S (student), so that such participants have a special attitude and attention on the web.

Over time, the Internet environment will become a place where everyone has only respect for each other, where projects are born, where it is comfortable and safe. And the Future Digital State will have to “follow” this.

Technically, the horizontal model of education today already has all the necessary tools, such as developed Internet forums and, on their basis, entire Internet communities that have emerged, cloud technologies for practically unlimited development, etc. It remains the case for prepare the babies to become People of Knowledge.

Movement from Crowdsourcing 2.0. to 3.0.

Transferring the principles of the “Namaste!” Community beyond the human community to all earthly living sentient beings (birds, dolphins and penguins, dogs, etc.) will greatly expand the possibilities of cognition and enrich the human experience. This will be the first step towards Crowdsourcing3.0. (i.e. Noosource) within the limits of the planet Earth.

However, the existence of living intelligent creatures outside the Earth will allow people to create communities with the inhabitants of the Galaxy and Metagalaxy (for example, with lepton beings) and even go beyond the boundaries of the Universe. And again, the main condition for such an expansion of the community will be the horizontal culture of communication “Namaste!”. And the first step towards Noosourcing will be made thanks to the implementation of my educational experiment!

Conclusion

The description of the horizontal model of the economy, horizontal money, horizontal science, education, etc., under-taken in this «Manifesto», will allow all interested People of Knowledge to quickly implement them and create a Sovereign Digital State Innatistenburg over the next few months.

Today, humanity is faced with the choice of the Path—whether to go further through vertical models to its own undoing—toward wars, self-destruction, etc. Either choose horizontal models of development and go through universal prosperity and exponential development. And every person can make the right choice and make a decision for himself, taking responsibility for our Future. We can change direction, if only we accept this “Manifesto” all together, millions of people.

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