

The issue of correlation between «digitalisation» and «humanisation» of the economy in the epoch of the great evolutionary breakthrough as the era of humanity transition to noospheric development

Alexander I. Subetto 

Doctor of Philosophical Sciences, Doctor of Economics, Professor
Herzen State Pedagogical University, St. Petersburg, Russia
E-mail: subal1937@yandex.ru

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For an epigraph

From an interview with the «Father of Cybernetics» Norbert Wiener for «United States News and World Report»

February 24, 1964.

«Question. Is there a tendency to program [nuclear war]?»

Answer. There is a trend, and the stupidity of the upper classes amazes me. The automaton has a property that was once endowed with magic. It can give you what you are asking for, but it won't tell what should you asking for.

We've heard speeches claiming we need to design machine systems telling us when to press a button. But we need systems that can tell us what will happen if we press a button in a variety of circumstances, and – most importantly – tell us when not to press this button!

Question. Do you think it's possible for machines to declare war and doom humanity?

Answer. If we let them. Of course, they won't declare war unless we set them up in advance.

Question. Dr. Wiener, does a person change the environment beyond the ability to adapt to it?

Answer. This is question No. 1. A person undoubtedly changes it extremely much, and whether he does it beyond his ability, we will find out it soon enough. Or we won't find it out – we'll no longer exist».

The first thesis

One of the fundamental contradictions of the modern era is global «digitalization» of the economy, management, and processes in society. Its rapid development is taking place simultaneously with the rapid development of the first phase of the Global Environmental Catastrophe for more than 30 years. Essentially, the market-capitalist system has transformed into a system of global ecological self-destruction. Nature, i.e. the Biosphere and the Planet Earth as superorganisms with their own homeostatics, de facto, in the form of processes of Global Ecological Catastrophe, has set Ecological Limits to global capitalism, the world market, the system of private capitalist property, economic colonialism, which appear, starting from the second half of the XX century, as a system of global imperialism of the world financial capitalocracy.

The coming Era of the Great Evolutionary Turning Point appears at the same time as the Era of the environmental degradation of the global imperialist system. It is the Era of the Ecological Collapse of the market, capitalism, and liberalism. The war of the West against Russia in Ukraine has as its goal the fragmentation of Russia, the establishment of the USA power over its natural resources with the simultaneous destruction of the Russian people as a «consolidator» and state (historical) «builder» of Russian civilisation.

The second thesis

The law of the capitalism stability or imperialism stability, as a system, is the law of dehumanization. It causes growing alienation from human essence and nature. This dehumanization has been especially active over the past 30 years. Indeed, it proceeds against the background of simultaneous processes of the first phase of the Global Environmental Catastrophe, in the countries of the «metropolis» of global imperialism system – the United States, the Great Britain, France, Germany, etc. Moreover, it includes the family crisis, the appearance of LGBT, the construction of digital-machine models of human transformation, and the acceptance of human multigenderism by Western society. All mentioned above completely disregard the «biological nature of man», derivative laws, etc., including «post-modernism» and «trans-humanism.»

We observe the market inherent dehumanization of man in «market Russia». According to S.A. Mikheev, participated in V.R. Solovyov's TV show, Russia ranks world 1st in terms of the number of abortions – 450 thousand abortions per year, i.e. 450 thousand murders of children in the womb.

Moreover, the issue of capitalist alienation of man was revealed by K. Marx and F. Engels. But 150 years later, it became catastrophic one. Hence, the digitalization of the market capitalist economy, relations between citizens and the state, public institutions, and following algorithmization, of the «inner worlds» of people and their thinking only increases the fundamental contradiction between man and nature. It strengthens the inadequacy of human quality to the current imperative of his ecological survival in the XXI century, i.e. it is a factor in accelerating the ecological death of mankind in the XXI century. Indeed, it is quite possible, especially according to a number of signs of endoecological poisoning processes, until the middle of the XXI century.

The third thesis

The necessary attributes of the XXI century economy in terms of mankind ecological survival strategy is the transition to a controlled, human-dimensional (planned market at a transitional stage), noospheric economy. It could become the foundation of socio-natural evolution scientific management.

Indeed, it is necessary to realize that the developed economy became intelligence-intensive, knowledge-intensive and education-intensive more than half a century ago. Therefore, it requires the abolition of private property and the management of economic development for the long run. Moreover, modern historical agenda is the transition of society mostly to a «scientific and educational society» than to a «digital society».

We developed the concept of a scientific and educational society; it is included in the author's scientific and ideological system – «Noospherism». According to the concept of scientific and educational society, science acts as a productive social force, and the basis for scientific management of socio-natural evolution. Additionally, education is the «basis of the basis» of spiritual and material reproduction, reproduction of the economy and society.

All above correlates with the law of sustainable development of the society (the antipode to the law of sustainability of capitalism, or the global system of imperialism of the world financial capitalocracy, originated in the United States, then in the Great Britain). This particular law advanced development of human quality, the quality of public intelligence, and the quality of educational systems as a whole.

Indeed, there is an issue of humanity survival strategy in the 21st century.

The mankind functioning in the era of the global environmental crisis in the XX century, and not earlier, is associated with a leap in the energy power. In order words, the world economy impact (the world economy and, accordingly, the world market) on living matter and homeostatic mechanisms of the Biosphere and Earth increases by an average of 7 orders of magnitude, i.e. in 10 million times.

According to Karl Marx, culture developing spontaneously (the law of supply and demand equilibrium in the market as an example of spontaneous development) leaves a desert behind.

The entire history of mankind, starting with the Neolithic revolution, is a «spontaneous history», i.e. a history consuming negentropy produced by the Biosphere, and produces entropy (or «desert», according to K. Marx), is a low-energy spontaneous history.

The mankind functioning in the period of global environmental crisis and in the first phase of a

Global Environmental Catastrophe in the middle of the XX century indicates the rate of entropy production approached the rate of production of negentropy by the Biosphere as Megasytem of Life on Earth (the laws of E. Bauer – V.I. Vernadsky). Moreover, it is against the background of a leap in the energy sector of humanity's global economic impact on Nature.

The apparent incompatibility of the natural regulators of development – the market, private property, the entire market capitalist economic system on Earth – and the large social energy sector conceal the law of intellectual, information, and energy balance discovered by the author. This law is formulated by the author as follows:

- the greater in energy power the social system's (society's, mankind's) economic impact on the living matter and homeostatic mechanisms of the Biosphere and Planet Earth as superorganisms, the greater the anticipation (foresight) of possible negative ecological consequences, and, accordingly, the greater the anticipation of scientific management of socio-natural (Socio-Biospheric) evolution by the intelligence (public intelligence) of this system.

It means the Ecological Limits were provided by world capitalism, world market, and the entire Elemental History. The Ecological Limits were indicated by the mankind entering the Era of the Great Evolutionary Breakthrough. However, the beginning of this Era started with the first phase of the Global Ecological Catastrophe in 80s-90s of the XX century).

This author's conclusion is indirectly supported by provisions or forecast formulated by the USA and European scientists. For instance, the American environmental economist B. Commoner in the book «The Closing Circle» in the early 70s of the XX century concluded as follows: technologies based on private property destroy the key asset of mankind – the ecosphere. In the autumn of 1991, in a Report to the World Bank, written by R. Goodland, G. Daly, and S. El-Serafi et al., a warning to humanity proclaimed: the economy's market mechanism of development has exhausted itself in the earth's filled ecological niche, which humanity occupies.

The imperative of transition from «prehistory», i.e. «spontaneous history», to «true history», which the author interprets as «controlled history», which was formulated by K. Marx, linking «true history» with communism, is now again facing mankind. However, nowadays the «imperative» presented to mankind by Nature in the form of the survival imperative. Nevertheless, the «true» or «controlled» history acquires a noospheric scale, i.e. it can be realised in the future only as a scientifically controlled socio-natural evolution.

In this context, the achievements in the field of computer mathematics, software, digitalisation, acquire a true ontological basis, a true «space» for their implementation and become one of the mechanisms of mankind's survival. Especially, in terms of the logic of mankind's transition to the noospheric paradigm of history, scientifically controlled Socio-Biospheric evolution (in compliance with the requirements of laws and restrictions, reflecting the action of homeostatic mechanisms of the Biosphere and Earth).

The fourth thesis

According to Karl Marx, communism is the abolition of private property... and thereby the genuine appropriation of the essence of human by human and for human ... basically, the real resolution of the contradiction between human and nature.» This definition of Marx's communism is a development of the issue of genuine human emancipation posed by him as his liberation from money cult (from turning «money» into human «god»), and from haggling. All above K. Marx formulated in his article «On the Jewish Question» in 1843, and published in 1844.

Moreover, the challenge of the human economic dimensionality, socio-economic development, and the human digitalisation dimensionality is an issue of launching the processes of humanising of history, economy, politics, and all social institutions. In the XXI century, this issue has the character of a Noospheric human revolution.

But the issue is extremely challenging nowadays. All Spontaneous history of mankind (spanning about 100-120 centuries, and, accordingly, about 500-800 generations of people) contains the inertia of people's and peoples' lives. People only concern with their own survival, the exploitation of the other people, or nature,

including the wars, robbery, and violence. For instance, over the past 5,000 years there were about 4,557 wars. Indeed, by the end of the XX century, Nature had set a Limit to this Spontaneous History, with its colossal inertia.

Russian Breakthrough of mankind to socialism in the form of the Great October Socialist Revolution (by analogy with the Great French Revolution, the author proposed to call it the Great Russian Socialist Revolution) in 1917 was simultaneously a breakthrough to a new, unprecedented paradigm of history. It should be the controlled history. And it was realized in the USSR, especially in «the era of Stalin.» In his book «Stalin», written on the impressions of his visit to the USSR in the early 30s, the French writer Henri Barbusse explicitly emphasised the planned socialist economy in the USSR. This phenomenon began national managed economy and managed socio-economic development.

In his book «Stalin's Economy», published in Russia in 2014, V.Y. Katasonov repeated A. Barbusse's assessments. He emphasised the socialist planned economy, exactly as «Stalin's economy», i.e. anti-cost, profitless, based on the criterion of technological cost reduction, could exist in the presence of «higher supra-economic goals». According to him, the economy acts only as a mechanism for achievement of these goals. Additionally, he highlighted the issue of «Stalin economy» revitalisation in modern Russia. However, there should be set the new «higher supra-economic goals», since the «market» is leading Russia to destruction. Moreover, the conclusion of V.Y. Katasonov is consistent with the author's theoretical conclusions, given by him in 2013 in his monograph «Market genocide of Russia and the strategy of overcoming the historical impasse».

Indeed, Katasonov's imperative is combined with the above-mentioned noospheric imperative, and the imperative of Russia's Victory in the war with the West (SMO in Ukraine), and has acquired a globally ontological and prognostic content.

Russia is the Eurasian, communal, and coldest (on its territory the average annual average temperature is «-5.50 C») country. Therefore, Russia has the highest energy cost of the economy and society reproduction (i.e. with the largest energy consumption for the society's life reproduction according to natural and climatic conditions). Hence, Russia plays the dominant role of the law cooperation, civilization, etc. Thus, Russia is the only multiethnic cooperation in the world. It is the cooperation of about 200 nations, nationalities, ethnicities, and ethnogroups. Thereby, Russia is the center of the global stability or instability, the «civilization of Truth», the peacemaking civilization, the «historical predictor». I claim the definition of «historical predictor», as the place where the major historical events are taking place. Moreover, it indicates the course of human history.

Exactly, Russia was the first country in the following areas:

- It was the first to make a Socialist Breakthrough in the history of mankind; became the world's first socialist power, and the socialist cooperation of the nations – the Union of Soviet Socialist Republics.
- It was the first to make a Space Breakthrough for mankind, launching Yuri Alekseevich Gagarin on April 12, 1961 into the nearest space.
- It was the first proposed to make a Noospheric Breakthrough in the form of the doctrine developed by V.I. Vernadsky on the transition of the Biosphere into the Noosphere. On the basis of this doctrine (the «Vernadsky revolution» in the scientific worldview according to N. Polunin and J. Grinevald) in Russia, a world-class Russian Noospheric Scientific School has developed.

The Great Evolutionary Breakthrough Era started the transition of the entire humanity to Noosphere Ecological Spiritual Socialism, to the completion of the Socialist Human Revolution, which took place in the USSR, but was not completed.

In fact, A. Peccei, the first director of the Club of Rome, wrote about the importance of «human revolution» as a basic condition for solving ecological problems on Earth back in the 70s of the XX century in his book «Human Qualities». However, he did not realise the incompatibility between capitalism and the market and its imperative for 'human revolution'.

The one of the reasons for the collapse of the USSR was the information and value war waged by the United States and West against the USSR. The other reason was the «alienation» of the Soviet people's consciousness, the cult of «foreign clothes», the temptation of consumer philistinism.

Nevertheless, in the XXI century, the completion of the «human revolution», i.e. the realisation of the imperative to dignify the human mind to the level of noospheric mind – or, in other words, to the level of «Mind-for-Biosphere, Earth, Cosmos» – requires a strategy for the survival of mankind on Earth.

Therefore, the Epoch of the Great Evolutionary Turning Point appears as «The Genera of Real Reason» and «The Genera of Real Humanity», overcoming the prevailing market-commodity, capitalist alienation of man from his essence, nature, and his noospheric vocation.

And to lead this Noospheric Breakthrough of mankind is again destined to Russia, as a «co-operative civilisation». In the world, against the background of the first phase processes of the Global Environmental Catastrophe, the «dictatorship of the limits of nature» has been established. Along with the End of Natural History came the End of the dominance of the Law of Competition and the Market. The transition to a controlled socio-natural evolution means a simultaneous transition to the dominant role of the Law of Cooperation, to the planetary cooperation of peoples-ethnic groups, to the Noospheric Union of Civilizations, to a World without Wars and Violence.

It is worth remembering the Socialist Breakthrough from Russia in 1917 was symbolised by the Peace Decree written by Lenin and proclaimed by the Soviet state first in the world.

Currently, Nature and imperative of the ecological survival of mankind demand it. One of the author's works, published recently, is called «Nature versus Capital and the Market.»

The fifth thesis

Hence, the human being's overcoming the commodity-market alienation from his essence, himself, and his noospheric vocation, i.e. the human being's emancipation, which K. Marx thought about 180 years ago in his article «To the Jewish Question», but already as a noospheric emancipation of the human being with simultaneous transition to the noospheric-socialist organisation of society and economy reproduction. Nowadays, on the agenda of the XXI century there is an issue of the continuation of human existence on Earth and in the Universe, or the ecological death in the «captivity of market-capitalist illusions, the cult of selfishness, pleasures, the pursuit of profit and wealth».

In 1918, N.A. Berdyaev remarked as follows: «selfish interest conceals madness.» The «digitalization» of the «selfish, ecologically insane world» only intensifies the madness and accelerates the process of ecological destruction. The «insane» «digitalization» destroys the human intellect, forms a «fragmented mind». This kind of mind is not capable of concentration, generalization of knowledge, and management of complex systems.

Moreover, the collective Mind of mankind has encountered the «Barrier of Complexity», the need for a noosphere-paradigm revolution in science, education, and culture. In the late 90-s, N.N. Moiseev noted this phenomenon in his monograph «Parting with Simplicity».

Indeed, «digitalization», as it is staged in the world and in Russia, is a simplification of the human intellect itself, replacing the complexity of the real world in which a person lives with a «virtual», «simple», «digitized world».

It conceals a disregard and ignoring the laws of evolution. We have developed a new noospheric paradigm of universal evolutionism, combining the Darwinian (author – Charles Darwin), Kropotkin (author – P.A. Kropotkin), and Bergovian (author – L.S. Berg) paradigms. We designated this paradigm by the term «noo-cosmo-nomogenesis».

In accordance with neo-cosmo-nomogenesis, any progressive evolution accompanied by an increase in the complexity of evolving systems is subject to the action of two metalaws: (1) the metalaw of a Shift from the dominant law of competition and the mechanism of natural selection to the dominant law of cooperation, and the mechanism of intelligence (as an anticipatory feedback); and (2) the metalaw of Intellectualization or «Enlightenment» evolution.

The Epoch of the Great Evolutionary Turning Point is the Epoch of mankind's transition to History on the basis of the Law of Cooperation and Public Intelligence (collective governing mind), i.e. the Epoch of the «noospheric Mind» birth.

The human dimension of history is transformed into a noospheric human dimension.

The «natural intelligence» occurred on Earth, in the Biosphere evolutionarily, as a result of the meta-law action of the «enlightenment» of progressive evolution. In this case, there is «enlightenment» of the Biosphere evolution, and then the mankind social evolution.

The «artificial intelligence» designed by the human» natural intelligence» projectively never «achieve the quality» of its creator intelligence – the «natural intelligence» of Human created evolutionarily. There is an evolutionary prohibition. It is not understood by those who are engaged in digitalization and the construction of «myth-fantasies» about artificial intelligence, and future replacement of their creator – human-intelligence by «artificial intelligence».

«Digitalization», as a private materialization of mathematical algorithms and models discovered by the «left hemisphere part» of human intelligence, is designed to increase the efficiency of this particular «part», and the effectiveness of management.

The fetishization of «digitalisation» and «artificial intelligence» causes increased alienation of human, his ecological conflict with the world, including a «digital-anthropogenic collapse». Accordingly, humanity is in a state of a Global Intellectual Black Hole, i.e. it is «late» in its awareness and adequate response to the processes of the first phase of the Global Environmental Catastrophe by 25-50 years. And «digitalization» has also contributed to this Global Intellectual Black Hole, as a form of «digital» alienation of the human intellect from its essence and vocation. The «language of numbers» («language of quantity») is quite «poor». As a «language» designed projectively; it will never achieve the level of the «language of words», i.e. the verbal language appeared evolutionarily in the process of anthropogenesis.

The challenge of realising digitalisation limitations, the revival of the national scientific school of «hybrid intelligence», the immediate restoration of ergonomics, which studies the interaction of the human psyche and intellect with the computer, display, «world of digital languages» and, in general, with the «virtual world», is the controversial issue of «humanising» digitalisation and the digital world.

There is an additional issue concerning the strategy of total digitalisation of Russian society. It is considered by some «narrow minds» in the state administration system. This is national security. The total digital bureaucratisation serves as a basis for the growth of «risks» to be used in the «digital-information war» of US imperialism against Russia. It could be happened through the US stealing of «digital information», and transmission it to its combat satellites to adjust the use of «point defeat» systems.

In case the world war reaches the «phase of nuclear war», one of the first objects of mass destruction (through the use of electromagnetic radiation – EMR) will be the system of remote communication, computers, power grids, radio networks, remote mobile communications, etc. Therefore, it is necessary to maintain a «paper management» system in reserve and train the personnel managing it.

A thorough study of this issue is required.

In conclusion, we would like to repeat the most important imperative for the current stage of Russia's development: the main goal of Russia's educational policy should be the establishment of a scientific and educational society in Russia, and a dramatic transition to improving the quality of fundamental education, training of personnel of the noosphere formation, including managers.

A noospheric revolution in science and education has already started in Russia. On the agenda is the upcoming noosphere-oriented synthesis of science and power.

According to the author, the challenge of the ratio – «digital dimension» and «human dimension» – of the Russian economy is obvious. It follows from the 5 theses presented.

The report is devoted to the 160th anniversary of the greatest human Genius, Vladimir Ivanovich Vernadsky.

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Alexander I. Subetto

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