

Noospheric Worldview And Sustainable Development



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Classical understanding of worldview [1] (as a set of views, judgments, principles and figurative notions, defining the most general vision, comprehension of the world and the place of a human being in it) and life philosophy, programs of behaviour, human actions and the concept of noosphere are closely related

V.I. Vernadsky wrote: 'Moreover, we are approaching a new era of life of mankind and life on our planet in the whole, when the precise scientific thought as a planetary power is in the foreground, penetrating into and altering the whole spiritual environment of human societies, when the technique of life, economic creativity, philosophical idea and religious life are being embraced and changed by it. This is, for the first time on our planet, an inevitable consequence of the all-embracing capture by brain' [1].

Noosphere is close to the concept of the 'Ether of the Universal Brain'. In this case it can be established that the noosphere spreads out into the cosmic space, and 'noocosmos', a space of Brain, emerges. Thus, the noosphere is part of noocosmos, i.e. of the Universal Brain or God in religious comprehension. Subsequent development of the noosphere may lead to a noospheric worldview or again to religion, as a matter of fact, to the faith in the Universal Brain.

Paying attention to the fact that evolution tends to generate brain, an idea of active evolution, i.e. necessity of new conscious phase of the world evolution, when mankind directs it the way, dictated by brain and moral sense, is put forward; i.e. Human Being takes the wheel of evolution. This is, as I see it, the noospheric worldview. For evolutionary thinkers the Human Being is still an intermediate creature in the process of growth, far from perfect, but at the same time consciously-creative, designed to change the external world and human nature. This refers to the expansion of the rights of conscious-spiritual forces, to the spiritual management of matter, the spiritualization of the world and human being. Cosmic expansion

is one part of this grandiose program. Cosmists managed to combine the care of the great whole – the Earth, biosphere, cosmos – with profound requirements of the supreme value – certain person. Issues, related to overcome illness and death and achievement of immortality, take an important place here.

The noospheric worldview let a thinking person choose a religion to his liking and believe in power of science and might of the Universal Brain without isolation oneself in blind faith. Russian Gods lived on the edge of the forest, right near the settlement; Greek Gods were elevated to Olympus. Then God had moved to the sky, but his 'dealerships' were organized on the earth and preachers have become proactive.

People's thirst for God and their need in the commonality of society is obvious, and the noospheric worldview let them be believers and believe in the power of science and the Great role of the Universal Brain, from which – through intuition – we get new ideas, solutions and discover new spheres of implementation of ideas and knowledge – these wonderful products of the Universal Brain.

In 1910, V.I. Vernadsky predicted the significant role of nuclear energy. We are the witnesses of this wonder's implementation, on which energy and defense force of the great powers is based.

In his speech about radium, made during the General meeting of the Academy of Sciences on December 26, 1910, Vernadsky noted: 'Through the phenomenon of radioactivity we discover nuclear power sources, which exceed all the power sources, drawn by human imagination, a million times'. He stated, there is no a country, that calls itself civilized, that can remain indifferent to new sources of power, provided by science.

Nowadays mankind has approached the discovery of Higgs boson – a particle of God, starting the era of practical implementation of genius ideas, interrelating the mass and energy. 1 kg mass may be transformed into energy, equal to half of Sayano-Shushenskaya HPP's annual production ($E=mc^2$). Higgs boson is the golden key to mass-to-energy transformation, and this greatest discovery confirms the soundness of noospheric ideas and strengthens our faith in the power of the Universal Brain.

The noospheric worldview will be developed along with further scientific discoveries. It is advisable not to repeat the mistakes of the past. The noospheric worldview should be in each of us: in our souls, brain and spiritual sphere.

The evolution of the noospheric worldview is closely connected to the evolution of science and education. There won't be further development of the noospheric worldview until the role of scientific and technological advance for economics is at the proper level.

The new noospheric civilization is coming on substitution of the post-industrial society.

The role of science and education for the contemporary world is extremely important. Unfortunately, contemporary market-oriented economists have withdrawn the scientific and technological advance

from factors of production, having left only the labour and capital (labour for common people, capital for themselves). It may work for some time, and scientific and technological advance won't stop. But the beneficiaries will be the countries and peoples that will place the achievements of scientific and technological advance at the service of the whole society, not at the service of certain tycoons and parties, serving them, and dealerships, whoever they represent.

At the beginning of the past century V.I. Vernadsky, while being on board the ship between Pavlograd and Omsk, wrote a short 7-page memorandum. Quote [2]:

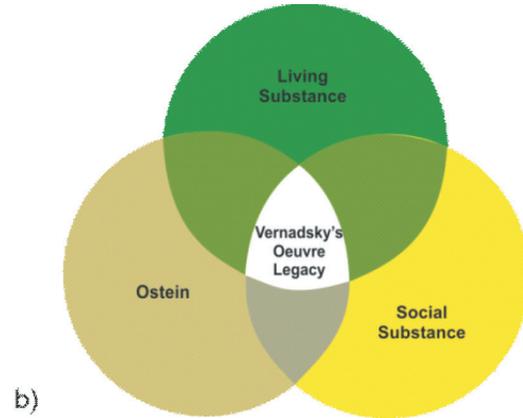
'Value is being created not only by labour and capital. For creation of value the **creativity** is equally necessary. This element of creativity may either coincide with the capital holder, i.e. a capitalist may be its bearer, or with the work holder, i.e. a worker may be its bearer, or not coincide with any of them. It may be contributed by the third category of individuals, different by its participation in the matter

and by its composition from a worker to a capitalist. Both, workers and capitalists, can enjoy and do usually enjoy the results of its creativity. Both can exploit it as a third power, equivalent to them.'

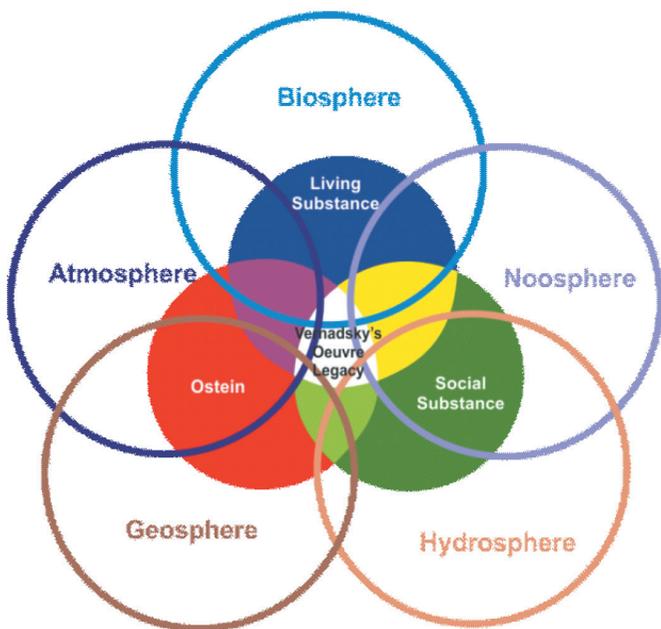
Surplus value is being created not only and mostly not by the labour, but also the creativity. The contribution of creativity may be much more significant comparing to labour [3, 4].

Science and scientific and technological advance can't be developed without use of intuition, which comes through the 'Ether of the Universal Brain' and development of the noospheric worldview, facilitating appearance of many ideas. We must believe that V.I. Vernadsky's theory of noosphere will facilitate the emergence and development of new ideas here, in Russia – his motherland.

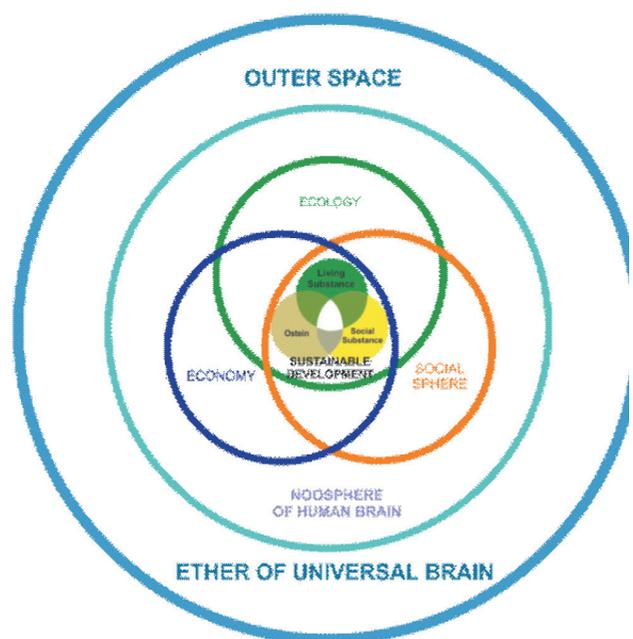
In 1910, V.I. Vernadsky predicted the highest role of nuclear energy; and we are soon to be the witnesses, that it'll be replaced



Sustainable development scheme (a) and the three spheres of Vernadsky's worldview (b)



Spherodization according to V. Vernadsky



Noospheric worldview

by the bosonic level. Today we can get 7 kWh when combusting 1 kg of fossil fuels, and we can get 7 000 000 000 kWh (E=mc²=1kg×299 792 458 m/s) due to the **bosonic level**, which is 1012 times more. Nuclear energy gives us 120 000 kWh/kg on thermal reactors, 24×10⁶ kWh/kg on fast reactors, which is 200 times more effective. But we are still not able to cope with not only the bosonic level but even the with thermonuclear level (6×10⁷ kWh/kg).

Great discoveries are going to create great opportunities in achieving the noospheric worldview, and then, as considered by V.I. Vernadsky, mankind will forget about wars, inter-group conflicts and feuds, and life will be principally different – the way it was predicted by V.I. Vernadsky, whose 150th birth anniversary has been world-wide celebrated in 2013.

It should be noted, that the doctrine of noosphere is being embraced by our leaders. During the APEC Summit 2010, V.V. Putin stated: 'At the beginning of the 20th century our compatriot Vladimir Vernadsky created the doctrine of space, uniting mankind, – the Noosphere. The doctrine combines interests of countries, nations, nature and society, scientific knowledge and national policy. It is exactly this doctrine that serves a basis for the sustainable development concept'.

This important idea should be promoted within the frameworks of the whole sustainable development policy, which is based on the three pillars: economics, ecology and social sphere as well as on their efficiency. Whereas, the efficiency of all of these spheres of life is connected with the creativity's achievements: economy without innovations and inventions can't be effective; ecology can't be good without application of scientific and technological advance; and even social sphere won't progress without recent achievements of scientific and technological advance, development of modern medicine and solution of immortality issues.

The classical scheme of sustainable development is closely related to V.I. Vernadsky's scientific ideas.

Living nature – biosphere – takes one of the central places in V.I. Vernadsky's doctrine. Noosphere unites living rational nature and the social sphere.

The comprehensive coverage of sustainable development by the noosphere of the human brain (the noospheric worldview) is an element of the Universal Brain.

Noospheric thinking outlines the ways of natural forces' use and development for the sake of human being, increase of social production's productivity, rational nature management, national health maintenance and improvement. Thus, mankind's interests are closely related to Vernadsky's scientific concept.

Nowadays Vernadsky's theory of biosphere's transition to noosphere has become a matter of special importance. This may serve as a basis for fundamental researches of environmental problems and practical search for their solution. Cognition of the regularity of biosphere's evolution is the lead to the rational natural

management. **On this way of evolution it is necessary to change the worldview.**

For further existence, mankind should take care of environmental preservation; therefore the objective to create noosphere is the present-day task. To pursue this task, wide knowledge in the sphere of ecology and its wide application in all spheres of human activity are necessary.

Scientific thought provides mankind with such energy and material opportunities, which let humanity not only take wealth from biosphere, but also reasonably transform Earth's biosphere with the purpose to save and increase these resources and convert them into renewable ones.

Human brain, as a spiritual component of Noosphere, has to choose the paradigm of solution of global environmental challenges.

I'm sure that achievements of scientific and technological advance will give the opportunity to solve any global environmental problem: from global climate change to radioactive wastes. This is referred not only to global environmental issues.

V.I. Vernadsky has shown us the proper way of positioning Human Being in the State; and the economics of noospheric type is the economics of knowledge, the economics of creative ideas' realization.

The noospheric worldview gives us an opportunity to correctly comprehend the whole image of the world, to sense oneself as an individual in society, in the World, and sense own Spirit in the Ether of the Universal Brain; this let Human Being be a believer and believe in own power and the power of the Comprehensive Brain.

That will be the real SUSTAINABLE DEVELOPMENT, based on the contemporary economics, the efficiency of which is provided by the production of science intensive products and high labour productivity. Creativity's contribution to such economics is determinative. Global environmental challenges as well will be solved due to scientific achievements. And social sphere, based on scientific achievements, acquires absolutely new features: people will live much longer, happily, full life in the **harmonic noospheric civilized world.**

Literature

1. Vernadsky V.I. Scientific thought as a planetary phenomenon. Executive editor A.L. Yanshin.: M., Nauka, 1991.
2. Aksenov G.P. Vernadsky. ZhZL.: M., 'Molodaya Gvardia', 2010: 302-303 p.
3. Aksenov G.P. Shooting of the third whale. Otkrytayapolitika, October, 1997.
4. Grachev V.A. Theory and practice of personal success. M., Sovremennyye humanitarnyye universitet, 2002: 279 p.