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ON THE ETHICAL, AESTHETIC, ENERGETIC AND ECONOMIC EVALUATION ENTROPY CHANGE PROCESSES OF NATURAL AND SOCIAL OBJECTS (main points)

1. The processes that take place in the upper shells of the Earth (geosphere, biosphere, sociosphere) should not be considered within the framework of Euclidean geometry, but in multidimensional and not necessarily Euclidean space. V.I. Vernadsky was the first to write about this. The description of an enterprise, i.e. its indicators, is a vector in multidimensional space, and the rates of change of the indicators (outputs, information processing rates) are also components of the vector of indicators. Information objects are as important as material objects, their value is great – and we can speak of a special information space with its own laws. Inertia and conservation of mass do not exist there, so gigantic objects – HYIPs – can emerge almost instantaneously.

2. Entropy is a measure of a chaotic system. With absolute order (e.g. coins lie "eagle" upwards) entropy is zero, with full chaos (coins are mixed) entropy is maximum. The information contained in the system is zero in both cases – and thus also its value. If the coins are arranged according to Morse code and form a meaningful text, the probability of finding a coin in the state "eagle" is not 1 and not $\frac{1}{2}$, there is some chaos (freedom), information saturation – and the value of the system is maximum.

3. In nature there are multidirectional processes. According to the second law of thermodynamics, entropy in a closed system can only increase: Energy is lost, substances are mixed, information is lost. But in open systems – the upper shells of the earth – there are other processes that lead to energy concentration, entropy decrease and information accumulation: tornadoes, lightning, gold nuggets, living organisms, technosphere, knowledge. The author calls them D and G processes so as not to get into religious discussions. However, the processes that correspond to the second law of thermodynamics can be called "diabolical", destructive and Manichean, while the processes that do not correspond to the second law are "godly" and ensure our existence and enjoyment of the beauty of the world. In terms of abstract science, there are no processes that are good or bad.

4. Of course, no one calculates the entropy and information saturation of systems. Intuitive properties are used: "value", "beauty", "happiness". In inanimate nature there is no information and the most valuable (to us) are objects with zero entropy – for example gold nuggets. Since time immemorial, gold has been tied to the value of everything else. In living systems, G-processes lead to the survival and perfection of organisms, because "hidden" in the mentality of living beings is the desire to possess beautiful women and raise offspring. The G-process in humans is also creativity, commitment to beautiful and important things, including religion. The globe is still beautiful and it is necessary to save it.

5. According to the Second Law of Thermodynamics, in order to decrease the entropy of an object, you must increase the entropy of the environment by extracting energy from other objects. For a she-wolf to give birth to and raise beautiful wolf cubs, she must kill many rabbits. In

order for a human being to create something beautiful (G-process), he must extract and destroy oil, gas, forest, animals and fish (D-process). The question is: which process predominates? Now it is the second, i.e. mankind has become a cancer on planet Earth. Cancer leads to the death of the organism. According to the economic and mathematical model of Dennis Meadows (1972), the maximum production and population on Earth will be reached in about 2040 and will then decrease to 1 billion. It is true that Europe and the USA have come to their senses and started to protect nature, but they draw their resources from outside: the USA's foreign debt has exceeded \$30 trillion and is growing by more than \$1 trillion a year; in 15 years about \$1 trillion has been exported from Russia to the West.

6. No nation can exist for long without a unifying idea, without religion. Stalin destroyed the competing religion – Orthodoxy – but built his "religion" – Communism – and won the war with it and conformed to patriotism and even the same Orthodoxy. Khrushchev ruthlessly struck at this religion, Gorbachev completed the destruction – and the USSR disappeared from the world map. The damage to the country was greater than that caused by the Nazi invasion. The Chinese, on the other hand, have retained Maoism – and are flourishing. The constitution of the Russian Federation now officially forbids the national idea; there is no basis for the unity of the people, no moral standards. Therefore, the plunder of Russia is limitless. The communist ideology has been destroyed. The Church is trying to do a lot, but what and how can it inspire the modern pupils and students who are overwhelmed with the USE and have a huge burden in the high schools? The introduction of religious education in schools, imposed "from above" by mediocre officials, will lead to its rejection, just as the "social sciences" in colleges in USSR led to rallies in support of Yeltsin.

7. This work should help to find new ideas based on scientific developments: concepts of God the Father as a set of information ensuring the existence and development of life on earth (without touching the cosmos), God the Father as a harbinger of certain norms of behaviour, religion as a way to realise them. Of course, the docking of science and religion seems extreme, but scientifically some scientists (S.Yu. Glaziev, G.G. Malinetsky) are close to understanding the theory of non-linear dynamics of dissipative systems in multidimensional phase space

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