

THE PHILOSOPHIC CONCEPT OF POSSIBLE CONSEQUENCES OF NANOTECHNOLOGIES PRACTICE

Vladimir Skileov

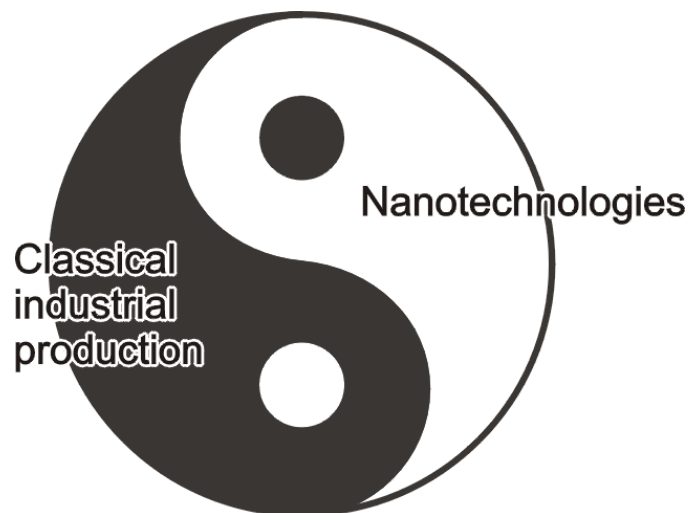
The Ministry of Information development, Chisinau, Republic of Moldova

Tel.: (373 22) 201-014

«If every tool at somebody's order, or by the own initiative would be able to work by its destination, the demand of disciples for masters or the slaves for lords will disappear».

Aristotle

Obviously Aristotle didn't know anything about nanotechnologies, but the social consequences of such a type of technologies he foresaw. As we, know, any predictions, similar to a high edifice of incertitude is pregnable. It was always too hard to dip into the future. Lets try to do it wherewith the well-known symbol:



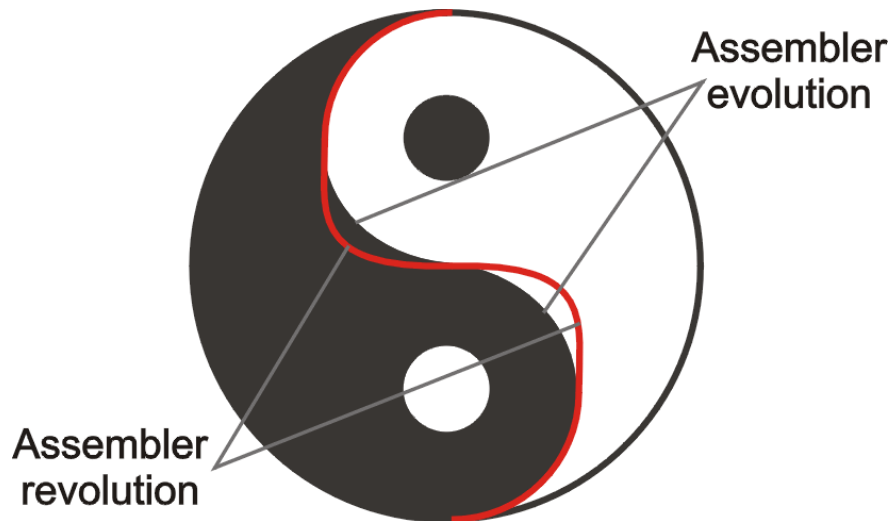
Picture 1

The analyze of the used technologies

The nanotechnologies and the classic industry are different because of the different number of atoms in the operation. Producing caps for his arrows, our ancestor was detaching from the basic stack, which contained trillion of trillions of atoms, distinct splits, which contained only

billions of trillions of atoms. Modern postgraduates, studying this ancient technology, can hardly achieve such a result. Modern technologies produce microchips, which are considered small only by the standards of those elf-bolt grinders (*every transistor contents trillions of atoms*). Nanotechnology is an atomic assembly of each level of the real mechanism (*product, bacteria*) it is not considered a product a synthetic substitution, but the real meat, corn, produced in unlimited quantity, every day in every house. So, what makes different classic technology from nanotechnology? If only the number of used atoms in the technologic process and in the transition from trillions of atoms to apart atoms does, so which are the consequences of such a transition? And do these consequences really exist? How long the classic technology and the nanotechnology will coexist? The answers of these questions and of another's too will give to you the reporter, confirming the ancient thesis of Pythagoras – «The Monad – is everything», including the filosofic concept of nanotechnology practice consequences. May be the first thing the nanotechnology will do – is the producing of perfect diamonds from carbon, which are the most simple objects for reproduction. We don't mean the trivial use of these diamonds as decorations, but the technological use of them, in the mechanic, polish treatment for example. As we know, today we can multiply raise the efficiency of the classic production. One of the social consequences we can imagine concerns the global leader on the diamonds market – De Birs, whose crash is inevitable. Already today the leaders of De Birs must perceive the consequences of nanotechnologies. It is possible that while the creation of the hugest objects on the first level of nanotechnologies development, would be reasonable to confide the production of separate knots to the nanotechnology, and the assembly of the macro object to realize using the classic technology. So if it is possible the civilizations will jointly use the classic technology and nanotechnology.

The man who used to practice nanotechnologies, can't, practically return to the classic technologies practice. This situation seems to be an attempt to let to go from the zoo an animal that use to eat by the schedule. The most of these animals, as we know will die. We started this paragraph with the technologies of caps for arrows producing in the Stone Age. Do you thing that the repeating of our ancestors' technology is an easy thing? This is an enormous labor and the acquisition of knowledge in such a producing is very difficult. The civilization accustomed to nanotechnologies simply returns to the Stone Age in case of technocratic catastrophe.



Picture. 2

Assembler evolution and revolution

Lets talk about once more effect. In the works about the e-document, we showed that the e-document, different from the analogical one (*paper*), hasn't the concept of «copy». The e-document is a virtual phenomenon. Any e-document is a rigorous sequence of **1** and **0**. However, the system can distinguish **1** from **0**, Theoretically, everything is built on this principle. **But the system doesn't distinguish 1 from 1 and 0 from 0.** So that is why it is impossible to make a «copy». If you repeat the same document for ten times, the system will perceive every dispatch as the same document.

The nanotechnology releases a new genie from the jug. Material theoretically undistinguishable objects appear in the material world, not in the virtual one. Where such certitude comes from? This certitude is based on the following: our civilization can easy distinguish the atom of plumbum from the atom of gold. It is more difficult to distinguish the isotope C^{13} from C^{14} , or the stabilized atom from the excited one. **But the system doesn't distinguish the stabilized atom of one element from another stabilized atom of the same element.** Theoretically, two big diamonds collected by the same program are identical. The nanotechnology builds a new Reality, in which the same good can belong to million people. Perhaps, we can also use the term «fission» Reality on a multitude of individual realities. In these realities will not exist the concept of «copy». Everyone will be the possessor of the original. The Mona Lisa wrote by a genial painter will be in possession of everyone in the original.

The possibility to create practically any object at home will change radically the social relations. Lets remind the words of Aristotle from the start of this work. So, what will be changed in this world after the nanotechnologies coming? The actual “economic” will disappear. The

specialization of the labors will disappear too, also the demand of labors will. The factories and the enterprises and everything connected with the classic production will disappear. The fields will disappear because the demand of diverse products will be satisfied by «cornucopia», the demand of killing the animals and of the fish hook will disappear too. The auto and railroads, which are necessary today first of all for the freightage, will not be any more. Also will not be money any more. Only the services and the need to pay for them will remain. Probably the mankind will return to the calculation with gold or with other rarely element. The nanotechnology operates with atoms but to get an atom of gold from an atom of plumbum (*which is theoretically possible*) is not its prerogative.

We need atoms of gold to make a gold pin using the nanotechnology, nanomachines and energy in the form of light or electricity. But to have atoms of gold you must get them in the nature. Apropos the nanomachines can also get gold in the nature. In these mean enormous reserves of carbon solve all the problems of diamond production.

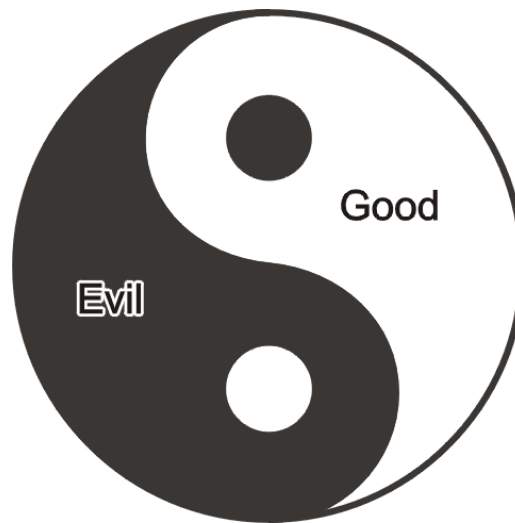
So, what does distinguish the actual world from the world of future? In the actual world even the genial ideas are low-priced. More important is the possibility to realize this idea. Very important people able to accumulate financial recourses and create a real production. The price of ideas will get up in the future. The people with luxuriant imagination able to set forward revolutionary ideas will be needful while those who organize the production will not be in demand. The demand of managers able to administrate the innovations and to monitor the negative social impact. The cities will disappear. Do you know why the person bunches in big cities? Is this a need of individuum to live in stone jungles? Look into your hearts. The people will abandonee the great cities and will populate equable the planet. The rising demand of communication will be satisfied without the direct bodies session on the meetings and conferences. All the spiritual needs to communicate will be realized by IT (*teleconferences, telesymposiums, etc.*).

These changes will certainly change us. A real mistake for a lot of as will be the unlimited possibility to manifest the pride (*I am independent!*), this is an intern attempt to self-affirmation on the Gods place (*I can do everything, I can create a individual reality, I can surround myself with personalities with predicted physics and spiritual requests!*). This is a real test for an insufficiently spiritual personality. Today, the test of collective administration (*family*) is failed by many people. It is a real satisfaction for a spiritually undeveloped person to manifest his dictorial inclinations on diverse levels!

Lets answer to the simple question – is the nanotechnology benefic or malefic for human being? Where does this way run: in heaven or held.?

To get an answer you must temporarily leave the technology and to remind the philosophy, more exactly the philosophic pair: god and evil.

A very interesting pair. The eastern philosophy tells us about very simple truths. There aren't good or bad people. Don't also exist good or bad actions. Any action, even the best, mothers actions for example, referenced to her child, contains an evil element. On the symbol language – this is a black «island» on the white background. So is in the inverse situation, even in the murders soul you can find a element of good (*an white «island» on the black background*). Perhaps such a «white island» can be noticed only by a experienced psychiatrist.



Picture 3
the symbol of good and evil

Lets return to the nanotechnology again and repeat the question – is the nanotechnology good or evil? The answer is clear. It is as good as well it is evil. Its au only to us how it will be this nanotechnology. We have already talked about the «cornucopia». This is rather good. However this is a matter of dispute. The material luxury. The man who does well to somebody must remember that you cannot enforce even the good, because the Monad returns with the evil side, so you begin to do it.