



Hysteresis

Humanity is risking an impending decimation and perhaps the early disappearance. It's a logical forecast, which derives from hard facts that each of us recognizes deep down, even if we can't manage to act accordingly. The two fundamental causes of the current reality are the way of interacting among us and with the environment. The interaction among us is based on the assumption that satisfaction of our needs depends on the individual supremacy over the others. This way has caused an enormous concentration of wealth and poverty of almost nine human beings out of ten. Our interaction with the environment is based on the opinion that nature belongs to us and that the natural resources are unlimited. This way has caused the overcoming of planet's capacity to regenerate the resources we use.

We have made and go on making a double mistake. The first is that in nature the satisfaction of needs and the evolution of a living body aren't the result of his supremacy over the other individuals of the same species, but they derive from a competitive cooperation, through which all individuals share common aims and everyone uses his own abilities in the best way to realize them. The second one is that humanity belongs to nature and not vice versa. Like all living bodies, humankind originates from nature, to which it belongs and with which it exchanges energy to live and to evolve. Natural resources aren't unlimited and they don't belong to any organism, but they have to be considered at disposal of the entire biosphere.

A complex system is a whole of interactive parts in which each part affects the whole and the whole affects and influences each part. When the parts of a system start interacting, a structure forms and the whole becomes a system, a new subject with different qualities that we can't explain by those ones of its parts. The way of interacting of the parts of a system depends on the organisation of its parts and the organisation depends on the structure, considered as disposition of the parts. The structure depends on the initial conditions of the parts at the moment when the system has formed and on casual mutations that occur in the reproduction. So, the initial conditions of the parts determine the organisation of its parts. When initial conditions change, also the structure and therefore the organisation can change. This process of changes, not always improving, is the evolution. Through these changes a living body formed, from which mind arose. From the interaction between mind, organism it arises from and environment consciousness, i.e. awareness of oneself, formed.

The complexity of a system depends on the quantity of interactions among its parts. A system is as much complex as much the parts that form it are more complex. The state of a system is the totality of its measurable variables and it depends on its organisation, which depends on the structure. A complex system is something more but also less than the sum of its parts. More, because it has qualities that its parts don't have. Less because the organisation restrains some potentialities of its parts. For example, the human being can feel emotions and have intuition and



intentions that don't transform in actions, because its own organism restrains them. Only when the whole organism is in a particularly critical condition, those potentialities can emerge and under particular circumstances they can attract other organisms by the same potentialities, by getting the system make an evolutionary jump. This relation between potentiality of the system and of its parts exists both in each cell and in the entire biosphere.

Human being is a complex system. Each of us is made up of cells made up of by atoms made up of elementary subatomic particles made up of energy waves that take mass at a certain speed. We are living creatures and as such we are able to modify the environment and us to occupy the biggest possible space. Like all living creatures, we are the result of a program that establishes, according to certain conditions, what elements we are made up of and the way of interaction among us and between the environment and us. We can modify even suddenly the program if the condition changes. We are isolated from the external environment, with which yet we exchange energy. We can regenerate ourselves by the change. We adapt to external impulses and we have enzymes that fulfil definite organic functions. We are intelligent animals, the most evolved life form of the planet we live on and perhaps in the entire universe.

Humanity, as organized whole of human beings, is a system even more complex than every single person that belongs to it. It arises from the interaction of the first organisms made up of eukaryotes, which from the very beginning had to struggle for survival exchanging resources with nature, it passes through two-footed Primates and it arrives to modern man. Humanity's initial difficult condition required the strength and the adaptability of every single individual. These two extremely selective qualities have originated a hierarchical structure, a sort of step-pyramid, based on different levels with double value: who stay at a certain level represents the totality compared with those who stay at lower levels, while represents only himself compared with those who stay at higher levels. This structure has originated the organisation of human beings and therefore their way of interacting. Those who prevail over the others resist. By this structure, humanity has arrived so far.

This organizational structure has got different forms and appearances, but it has remained substantially unaltered, it has been maintained or imposed by force or with subterfuge, by physical violence or with different consent strategies. All our history proves that a leadership has always constructed every human organization form with very few well-organized people in order to maintain the position, some intermediate levels with a strict minority that sustain itself and the leadership, the lower levels with all the other atomised, disunited and therefore dominated people. It will be so until the structure modifies. It has to be necessary and possible so that it happens. We must examine the current reality and its effects to establish whether it's necessary. In order to establish whether and how it's possible, we must compare the current condition with the initial ones on the grounds of which the structure has formed.



In 2009 human population is made up of 6,8 billion people of 305 ethnic groups, half male (50,26%) and half female (49,74%). The average age is 28,4 years, 27,2% (1.850 billion) has less than 15 years, 65,2% (4.433 billion) from 15 to 65 years and 7,6% (516 billion) more than 65 years. It was made up of less than 1 million people 70.000 years ago, 200 million 2 thousands years ago, 310 million 1.000 years ago, 1.650 million 100 years ago, 2.518 million 50 years ago, 6.070 million in 2.000 and it's up 1,167% every year.

It's up 10 times in the last 300 years and according to estimations it should be 7 billion in 2011, 8 billion in 2024 and 9 billion in 2042. Through the probable demographic transition death and birth rates are reducing: first death rate reduces, then the birth one and finally death and birth rates become equal. The average life expectancy is today 66,6 years, 64,5 for men and 68,7 for women.

More than 4 billion among the 5 billion people with at least 15 years, can read and write. Labour force is 3,17 billion people, 40% in agriculture, 20,6% in industry and 39,4% in services. The unemployed are more than 250 billion, the under occupied more than 500 billion. Both are on the up. The world wealth produced has a monetary value of 62 billion dollars, equal to about 69,5 billion international dollars (calculated according to the purchasing power parity), for 4% deriving from agriculture, 32% from industry and 64% from services.

About 4 billion people are at least twenty years old. 1% of these has 40% of planet wealth, another 1% has 10%, another 8% has 35%, another 40% has 14% and the remaining 50% has 1%. It's deduced that 10% of population has 85% of the total wealth. This means that each of the two that have more has a wealth on average equal to 2.500 times the one of each person of the half that has less. From this imbalance a series of consequences derives, among which almost a human being out of six suffers hunger and from thirst, one out of ten dies of diseases that would be curable, one out of four can't read and write, while 1.500 billion dollars per year are spent to produce weapons. And every year this expenditure is up 4%.

In this situation, unfortunately it's too easy to forecast the unemployment and poverty increase, the decrease in consumption, the closure of many enterprises and bankruptcy of the same national states, the decrease in purchasing power of currencies. This is already happening quickly and all over the planet.

Since 1986 we have been overcoming the planet's capacity of regenerating the resources we use. In 2005 the ecological deficit was of 6%. And it's estimated that in 2010 it will be 13%, in 2025 40% and in 2050 102%. In 40 years, so humanity will need two planets like the Earth. This situation must be absolutely modified. Within how much time? It's the first time an organism has threatened the destruction of the entire biosphere and it's not easy to calculate the time. However, considering hysteresis, through which



the physical and biological systems react late to the spurs they receive, but then the reaction becomes irreversible, it's estimated that the point of no return is 2012. If within that term we will not have already started to modify really our relationship with nature, the process in progress, we will not be able to reverse the process anymore. That's why we are in a singular and exceptional moment of history not only of humanity but also of the entire planet.

This economical and environmental situation is well known and too detectable, but people can't draw the logical conclusion that it's necessary to change. Perhaps almost all would like it, but they don't have the strength and the will to do what would be necessary. But, how have we got to this point? The answer is in history. By embezzlement, by taking away the resources and exploiting work. First by weapon force, then by money fraud. Populations of entire continents were plundered and the first privileges were set by weapons, until an insuperable gap between few people with very much and many people with little or nothing formed. With money the gap has grown stronger and has increased, by paying the resources and work at low prices and by making pay the products obtained from the resources and work at high prices to obtain the highest profit. The deception is the absolute lack of real value of adopted money, which takes value only because it must be accepted by law.

Legal tender has become the fundamental means to maintain the structure of the human system. Private people, institutions, organizations, armies, weapons, drugs, corruption, means of information, everything can be bought by this money. Somehow, from the most impudent to the most disguised, we can pay the body and the spirit of people by legal money. And all that to concentrate more and more wealth in few hands through profit, the main aim that the economical system assigns to production.

A paradox that can be explained only by a hierarchical structure and an organisation that make depend the survival and the human development on money that is worth nothing. So, less than a fourth of us consumes more than three fourth of wealth of the planet. A situation that is more and more unbearable in so far as who live badly can understand the causes that determine it and rebel.

Also the political system is the effect of concentration of wealth. In the first agricultural economy societies resources were in common and the head was at the service of the community. He governed without dominating. If he didn't carry out his function correctly or if he misused his power, he was substituted. And if he resisted he was eliminated. Then, in every human society, a minority has managed to appropriate the majority of resources and of the products and since then it has established its supremacy by imposing also, in its interest and with different techniques, those who had to have the power over the others. At that point government becomes domination. Domination arises from concentration of wealth. Nobody has ever conquered the power without resources. Also revolutions that seemed



that were born from the will of peoples, were really wanted and led by wealth holders, as history proved. And today, despite all appearances of democracy, humanity is still dominated in the interest of the minority that has the majority of resources and wealth. Who has more resources establishes who must have political power. Always. Until now.

Considering this reality, it's manifest that if we go on so, there will be violent revolts, people will make new wars and people will be able to destroy entire populations if not the entire humanity by the available weapons. If we go on this way, the planet will die and however presently it will not be able to sustain the human species. And this just as science is discovering the causes of mortality and is searching for the possible solutions. So it's necessary to change. Not pretend to change, but really. People can rule until ruled people accept it and their survival instinct kicks in. When it happens, people get information, understand the causes of their discomfort, and then they unite and finally they act. When the number of people that can't take any more reaches a critical mass, normal inhibitions fall and all becomes uncontrollable. As the need to change is proved, we must establish whether it's possible through the objective comparison between the initial condition that existed at the time when the first organisms formed and the current condition of nature in the whole.

In the initial condition in which life arose neither mind nor thought nor consciousness existed. The only information was in the atoms and in the subatomic particles. Everything could chance. The first organisms didn't have choice. All the evolutionary process until few decades ago could not develop very differently. Every life form had necessarily to adapt its survival strategy to its own potentialities compared to the environment. Everything, even the human species. But, for at least thirty years, we could have chosen. The technological progress and the general development of human capacities allows to satisfy the needs of air, water, food, hygiene, health, security, sociality, love, self-esteem, appreciation, freedom, realization and search for the sense of existence of each human being. To obtain this result, we must only decide with intelligence and act.

We must change the rule of selection. We must establish that all human beings (all, not only the strongest, the most intelligent, the most capable or the luckiest ones) have the right to live stately, to satisfy their needs without excesses and to be happy. We must establish that all human beings must have the conditions to work and produce. We must establish that universal and durable peace as prerequisite for the best development of the entire humanity. We must eliminate human exploitation and the same dependent work. We must return to the limits of planet's sustainability as soon as possible by eliminating excessive consumption, by producing very durable goods and by reducing the pollution of environment.

How to realize these choices? First of all we must face the mean problems of the present. Then we must think how to build a future based on a more right structure than the one of the past. The only solution is the stable and durable union of all inhabitants of the planet that don't want war, poverty,



ignorance and destruction of the planet and that want peace, justice and freedom instead. It's necessary an organism everybody can identify with, which has the authoritativeness to make apply our decisions. It can't be a national state neither can an organisation made up of national states, because the relation between economic supremacy and political power would happen again. It can be only a universal republic, a new government system from the bottom, with representatives directly elected and other things being by the population of the earth that is at least 16 years old, who entrust to this body the precise mandate of applying the will of those who belong to it. Not a world state, but a new government system that is actually democratic, that carries out an extraordinary function on behalf of all peoples or at least of that majority of the planet's population that have difficulty to survive. It's the only way to save humanity and its planet without the use of violence.

But, a government system isn't sufficient. Also the means to act rapidly and to affect concretely reality are necessary. The most effective means is a work currency to be assigned in equal parts to all those who belong to the new political organism. By replacing legal tender with a currency issued on behalf of workers, we obtain an immediate redistribution of wealth. Then concrete initiatives are necessary to face those problems that are going to worsen more and more, as they have remained unsolved and that concern energy, water, food, health, culture and information, production, reconversion of weapon industry and personal security. The Holos Global System programme (www.unigov.org) plans for all these initiatives. Also the Republic of the Earth (www.asmad.org) as new government system and Dhana (www.dhana.org) as work currency belong to the programme.

What have we to do then? It depends on what we want. And what we want depends on how we feel reality. If we accept it, we can only hope that something that changes it happens. But, it will be useless.

Apart from appearances, promises and illusions, the situation is critical and it can't nothing but worsen. If we want to act instead, we must feel hard facts as they are and realize that we can't go on so. We must rebel to reality, the one in the present and the one that probably will e in the future. Then we can. First, we must read the Constitution of the Republic of the Earth with the relative notes. The principles and the aims to be realized are expressed in only twelve articles. Second, we must adhere and make adhere to the Republic of the Earth. Third, ask for the assignment of Dhana, in physical money or in telematic money through www.akadhana.org. Fourth, ask for Dhana as means of payment. Fifth, learn the Holos Global System programme and choose the activity or the function that we consider we can perform. Together we can, but there is very little time.

19th June 2009

A handwritten signature in black ink, appearing to read 'Rodolfo Marusi Guareschi'.

Rodolfo Marusi Guareschi