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## **The Environment Theory of the Nature**

»The Environment Theory of the Nature« has been written for The Nobel Foundation<sup>1</sup> as information on the Nature.

### **The Abstract:**

»The Environment Theory of the Nature« is philosophy of the Nature or by other words it is search for knowledge and understanding of the nature and meaning of the universe and life.

The term “environment or surrounding” has many meanings and in my opinion it needs definitions and classifications of different meanings. In regards to my research related to the Nature it matters more for understanding the philosophy of the Nature, as any other known meaning.

### **The Keywords:**

Environment, Evolvement, History, Information, Invention and Innovation, Nature, Philosophy, System thinking.

### **The Introduction**

Present status at the Biosphere of the planet Earth, living conditions and daily events or living of Homo Sapiens present civilization and the rest of the living creatures are showing signs of adaptation to the changing living conditions resulting from changes in the planet Earth's Biosphere environment.

After 1960's the visible changes have become more as just cyclic events within the Solar system and the planet Earth system. Most acute issues have been changes within the weather patterns and most significant change was commencement of the ozone layer destruction because of the chlorofluorocarbons CFC's introduction to the atmosphere by our civilization.

With coming of the third millennium climate change become important for politicians and the scientific world was separated into two fractions:

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<sup>1</sup> Postal Address: The Nobel Foundation, P. O. Box 5232, SE – 102 45 Stockholm, Sweden, Street address: Sturegatan 14, Stockholm.

- The first fraction is advocating humans' responsibility; it has been gathering around the International Panel on Climate Change – IPCC and has been supported by United Nations – UN, “developed” and other national governments, politicians, administration, media etc and they are presenting “official” version of the climate change issues, and
- The second fraction is much smaller by number but including fine scientist and good thinking abilities; it is advocating cyclic reasons for the climate changes as events within the Solar system.

During the end of the XXth century and until now I have been researching independently but in co-operation with large number of scientist, and with use of system theory, thinking, analysis and synthesis.

After 20 years of research works I have published “System Thinking and Climate Change System (Against a big “Tragedy of the Commons” of all of us), with R. Mayur and M. Mulej, and coauthors, 2002, ISBN 961-236-380-3, a book 302 pages, soft cover paper edition and CD. It was our first publication in the book form after many presentations worldwide on systemic background of the climate change and introduction of the **climate change system**.

The next in line was “The Information Theory of the Nature” published in 2006, and final part is “The Environment Theory of the Nature”. As usually in our life the things are having a turned-around following order and the last should be the first.

## **The Discussion:**

Discussing that the philosophy is the search for knowledge and understanding of the Nature, and meaning of the universe and life, I would rather say »The Environment Theory of the Nature« is commencement of systemic approach to the meaning of the environment, “*basic environment*”<sup>2</sup>, Universe and Cosmos as precondition for existence of the Nature.

Let me present the case studies of two recent theories »The Theory of the Environment« and »The Information Theory of the Nature«, which are the most recent research results of my thinking and researching.

Mankind's<sup>3</sup> local communities include variety of many different contents of the human life styles, etc. A major part of it has connections with origin of the people living within the local community, and with the natural characteristics of their environment, within which the local community lies. Geography, biology, physics, chemistry, and history cover in general the main deciding contents.

Common thinking and understanding are day-by-day life issues, local events and communal life stories. All of us are living in a local community, but very seldom we understand individuality of the local community. Countless local communities of the humans on the planet Earth are countless individual approaches of the humans to make living. Beside the family the local community is the basic unit of the present human civilization.

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<sup>2</sup> “*The basic environment*” is novelty in understanding of the Universe as environmental precondition for having anything – The Nature and evolvments within it.

<sup>3</sup> From the book »The Sustainable Future of Mankind III« first draft, Ecimovic at all please see at: [www.institute-climatechange.si](http://www.institute-climatechange.si) .

It is very difficult not to see similarity with star systems, planets, galaxies and other energy/matter forms within the known Universe.

As we seldom have opportunities to see individuality of the local community of humankind on the planet Earth, so it is even more difficult or impossible to understand individuality of other planets and the planet Earth. To the countless number of the planets within the Milky Way Galaxy we have to add even more countless number of the planets within the rest of the Universe.

To make it more complex, I have to say, that what we understand of the Universe is a very small part of it, and even less we know how small part of it is our Universe in reality.

The Nature<sup>4</sup>, the origin of the Earth, the origin of humans, etc, are parts of large content we call »The Nature«. It is hard to answer to all questions of the Nature. But some of them need to be answered for sake of philosophy and understanding of the life and other issues connected with it.

The present science has to undergo future evolvement to be able to answer the basic questions about the Nature. That is why I am putting my recent research in this presentation in order to put on records new theories and possibilities for tomorrow. And of course, tomorrow I expect better environment for humankind and sustainable future<sup>5</sup> for our descendants.

»The Information Theory of the Nature« was published in 2006. Here I will present my recent research and new theory »The Theory of the Environment«, which is opening new horizons for research of all issues of the Nature. It is an environment-centric theory, which offers understanding of the present in general and allows for new dimension of research of the Nature.

***The theory of the environment is taking environment as precondition for anything.*** »Basic environment« of the Nature is the Universe or the Cosmos. Within it the Nature exist in countless forms, dimensions and contents as **»interdependence, interaction and co-operation«** of all matters, energy, information, light, rays, powers, forces, particles and yet unknown contents of the Nature.

The beginning or end of the basic environment does not exist, but it is **»continuum«** of the Nature, which makes/holds/transforms all contents. The basic environment (the Universe or the Cosmos) should get proper description, which according to system thinking does not commence with beginning and end, but it exists as **»continuum«**.

The present thinking ability of humans could not accept reality of the immensity of the basic environment - the Universe or the Cosmos. For present researching techniques the basic environment is immeasurable. At present we have researching possibilities for exploring our neighborhood within the basic environment - the Universe or the Cosmos.

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<sup>4</sup> From the book »The Sustainable Future of Mankind III« first draft, September 2009, and partly from the books »The Sustainable (Development) Future of Mankind«, Ecimovic et al, 2007, and digital book »Sustainable Future, Requisite Holism, and Social Responsibility (Against the current abuse of free market society) edited by Bozicnik, S., Ecimovic, T., and Mulej, M., 2008, both displayed at: [www.institut-climatechange.si](http://www.institut-climatechange.si)

<sup>5</sup> The sustainable future of humankind is harmony of our civilization with the nature of the planet Earth, please see at foot note 2..

Our horizon is limited with our techniques and researching abilities/possibilities. For our understanding of the dimensions within the Universe, we are also limited by our scientific language – mathematics, which is not yet evolved for the needs of the Universe researching.

That is why humans have discovered the Big-bang theory, black holes, unified theory, strings and many more brilliant thoughts and applications of the researchers, but could not properly describe the basic environment or the Universe.

**Putting the “continuum” at centre of the Nature is making a huge difference in possibilities for research.**

So we have now the basic environment and the continuum, we have basic relationships such as **interdependence, interaction, and co-operation** of all matter, energy, information, light, rays, powers, forces, particles, dimensions and yet unknown contents of the Nature, where some of statements need to be described, for instance the information theory of the Nature.

The present understanding of the Nature has been going on as long as the present civilization has been evolving. As mentioned before in 2006 the book “The Information Theory of the Nature, and .....” by Ecimovic, T., ISBN961-91826-1-8 was published with the Information Theory of the Nature, and before within this presentation “The Environment Theory” was discussed.

The novelty of the information theory of the nature is research of the term “information”, which has been researched in connection with the system thinking, and the philosophy. The “information” was understood as a system of the abilities, quantities, qualities, relationships, instructions of each and every matter, energy, light, rays, powers, forces, particles, dimensions and yet unknown contents of the Nature under prerequisite of **interdependence, interaction and co-operation**.

Transformation of the matter and energy with their information, it is event simultaneously according to the environment qualities the information. New transformation has its information in same manner as the genetic code of living creatures. It is precondition of their continuum, and it is composed at the moment of transformation. In living creatures it is according to prearranged (by the nature) genetic structure, and in the other parts of the Nature the genetic structure is exchanged for abilities, qualities, quantities and other characteristics of the environment, within which the transformation of matter and energy is takes place. By the continuum the systemic process is upgrading all characteristics of the Nature.

It is important to discuss the system – as a complex entity, rather than mental picture in living creatures’ mind - from the operational content. Any system is in stabile mode as long time as all its internal systems are in stabile mode. Whenever external reasons or instability of internal system have been moved/changed/impacted, or etc., the system as complex entity commences to move. It is not possible to predict the direction of the movement of the system.

For instance, after “Big-bang” (Hawking) had happened, being responsible for our part of the Universe, the transformation of matter and energy has resulted with formation of the Milky Way Galaxy, countless star systems and our star Sun system. From commencement of the Big-bang the energy and matter transformation resulted in new transformed contents, and it has been simultaneously enriched with information of its abilities, and so on. I think a major part of the information is composed by characteristics of the environment within which various processes

were and are going on. Of course the environment's characteristics are also changing or transforming accordingly.

Finally, some 4.560.000.000 years ago the star Sun system evolved in the planetary systems including with our planet Earth. Each part of the system has its own information according to which the evolvments are possible. In my research I think this possibility is opening the door for researching further contents of the Nature.

To be able to conclude these case studies I have to present a short discussion about the time.

Here we have to rethink/discuss our human achievement called the TIME. We humans have a long history of use of the time as practiced. At present the time is a very important dimension of our living. Practically it is very difficult to imagine our living without the time practically in use.

When looking from the Nature's viewpoint, we may see it does not use the time. **The Nature is always in the present.** We may discuss it as the Nature is taking as much time as needed for a certain process. And due to its systemic abilities the Nature is evolving in only one direction – “the multidimensional evolvment ahead”. Direction of the evolvment is not known, but it is result of interdependences, interaction and co-operation in case.

I think the TIME is our civilization imaginative dimension, which is very useful to our living, thinking, discussing, researching, etc, but the Nature does not have the time as its dimension. Processes in the nature are having their evolvment according to the direction of the evolvment and the information, which is assisting it, and it exist only at present.

Due to its systemic quality and human understanding of it by the requisite holism principle of the human approach (Mulej, M., Kajzer, S., 1998; based on the concept of the “dialectical system” as a network of all essential viewpoints by Mulej, M., 1974), the system qualities, and environment within which the requisite holism and wholeness of the nature exist THE PRESENT is viable (to our understanding) or not as a continuum, but it has constant continuum be it to us understandable or not.

The environment definitions:

1. The **basic environment** (the Universe or the Cosmos) it is environment within which the Nature exist as **continuum** of all matter, energy, information, rays, particles, dimensions, powers and forces, and yet unknown contents of the Nature. The basic environment (the Universe or the Cosmos) does not have the beginning or the end, but has countless forms of matter, energy and information transformations, dimensions and systems and it is a system of the Nature.
2. Second to the basic environment (the Universe or the Cosmos) are countless form of matter, energy and information of larger and smaller dimensions of star systems, the galaxy systems, and within them individual star systems, such as our star Sun system.,
3. The basic environment (the Universe or the Cosmos) as system it is making possible the **interdependence, interaction and co-operation** of all matter, energy, information, rays, particles, dimensions, powers and forces and yet unknown contents of the Nature. Consequently each and every case system under observation: big and small bangs, seen or dark energy, black holes, galaxies, star systems and all other forms of systems within it are having their contents and characteristics (individuality).

4. The star system environment it is a particular star system with its internal and external environments and systems.
5. The planetary system is a part of the star system and it has its external and internal environments and systems.
6. The star Sun system is a part of the Milky Way Galaxy, which has 100.000.000.000 + other star/planets systems and countless meteorites and other forms/systems of matter or energy. All of them are moving like a top and circular movement around each other. According to **interdependences, interactions and co-operation** the star Sun system is moving like a top and with app 800 000 km/hour speed circling around the centre of the Milky Way Galaxy. The circular movement is the main physical characteristic of all larger and smaller forms of matter and energy within the Nature.
7. The planet Earth is one of eight planets, but only one of them with environmental characteristics allowing “the living Nature”. The planet Earth contains its three basic environments (the planet Earth basic environments): the Land, the Water, and the Atmosphere environments.
8. “The living Nature” in the planet Earth’s natural system has countless living creature’s larger and smaller forms and systems, amongst which there it is also Homo sapiens’ civilization. All of them share the environment or the Biosphere, which is a tiny and thin part of the planet Earth system’s surface, within the water and atmosphere’s lower part.
9. The Homo sapiens’ civilization has its own environment of different characteristics but in the third millennium the urban environment prevails as its internal environment made by humans. Other forms include: rural areas; agriculture; forestry; transport means systems including roads, railways, airports and ports; industry; sports including sport facilities, etc.; military with barracks, armaments and other facilities; education with schools, universities, researching facilities, etc.; healthcare system with hospitals, researching and other facilities etc.; and etc. In 2008 in Europe (EU) 17 % of total area has been sealed land or land taken from the Nature and occupied by the Homo sapiens’ civilization.
10. The living creatures’ environment could be divided in: internal and external environment. Typical internal environment (within the body) is cell liquid or blood as environment for blood cells etc., while the external one consist of family, local community, society, surrounding, water (bathing, drinking, etc.), air for breathing, etc.
11. Man made system has internal and external environment – for instance the car has its combustion engine as a part of its internal environment, and roads as part of its external environment. Homo sapiens’ civilization’s environment and its natural environment are parts of the general natural environment.

There are many word uses and definitions about environment connected with content of issues like the nature environment or surrounding, etc,

At the end I discuss the environmental sciences, which are quest for knowledge and understanding of environment and there are so many sciences as many environments. Generally I think that “the basic environment” (the Universe, the Cosmos) as the largest possible environment and the only environment with only internal environments could be commencement of the environmental sciences and other could follow. Our civilization should commence The Book of Physics with Environment (“basic environment” the Universe or the Cosmos).

## **The Recommendations**

I am recommending as follows:

1. Rethinking of the present use of the term environment and consequently the introduction of proper terms.
2. Introduction of the system thinking for any use of environment-related word or issues.
3. Introduction of the environmental sciences as humans' scientific approach to the Nature and "basic environment" (the Universe or the Cosmos), and other environment systems.
4. Use of system thinking as research tool. One should combine systems theories working on a requisitely holistic approach such as Dialectical System Theory by Prof. Dr. (economics) and Dr, (management) Matjaz Mulej with nature-describing systems theories such as the complexity and chaos theories etc. to provide the requisite wholeness of understanding and description and preciseness in its elaboration per parts/viewpoints.

### **The References:**

As stated in the above text and foot notes; otherwise all references could take much more space in this presentation as it is taking itself.