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PHILOSOPHY OF THE SUSTAINABLE FUTURE OF MANKIND[1]

Zg. Medosi, Korte, Slovenia, October 2009

"Philosophy of the Sustainable Future of Mankind" has been prepared by: Prof. Dr. Dr. h.c. Timi Ecimovic[2], for presentation, lecture or discussion worldwide. Please do not hesitate to ask me for co-operation, thank you.

The Abstract

Philosophy of sustainable future of mankind is the search for knowledge and understanding of the nature and meaning of the universe and life. The knowledge is most important achievement of Homo sapiens present civilization.

Under the progressing the threat of the impact of the climate change system to the biosphere of the planet Earth, which is changing living conditions, our civilization has to meet the challenges and establish a path for long term survival.

Present global social order, life style, education, ethics and daily practice of humans needs to undergo a fundamental renewal to meet the needs for long term survival during and after the third millennium.

The discussion present a contemporary sciences approach to the present the ***Nature, energy, drinking water, food, credit and societal crisis*** of humankind at 2009. The present civilization or our humankind is facing the largest complex societal crisis, which is also closely inter-related with the impact of the climate change system or evolving planet Earth Biosphere »crisis«.The impact of the climate change system may in the long run change: biology, geography and living conditions within the biosphere, from suitable ones of the last

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12.000 years, to environment not suitable for Homo sapiens to live. It is making more complicated or complex of the present social crisis of: energy, drinking water, food and credit. In 2009 we are entering difficult times for humankind. The corporate and individual (3.1.; 3.3.; 79.) social responsibility is a part of our society with much more importance as we are thinking at present. The possibility for survival is closely connected with social technology/technique of the »Sustainable Future of Humankind« or harmony of our civilization with the Nature of the planet Earth[3]. The corporate and individual social responsibility will have to play a more important part in future, for new great achievement of our civilization to overcome the crisis of living conditions within the biosphere of the planet Earth and present credit, energy, drinking water, and food crisis of our global community.

The sustainable future of mankind or harmony of our civilization with the nature of the planet Earth is an option for mankind to survive approaching impact of the climate change system at the biosphere of the planet Earth (3; 3.1.; 3.2.; 3.3.).

Key Words

Corporate and Individual Social Responsibility – C&ISR; Globalization; Leadership; New approach; Our civilization; Our common enemy; Philosophy; Present Humankind Civilization; Sustainable Development; Sustainable Future**;** System thinking, requisite holism, social and societal technologies; The climate change system impact, energy, drinking water, food, credit and social crisis; The Nature of the planet Earth; World Government; Provisional World Parliament; and Constitution of the Earth Federation.

The Discussion

Ending of the year 2008 opened new horizons for heavy crisis situations of present global humankind civilization. Because of poor leadership of USA in 2000 – 2008 not only USA society but also the whole global society is facing serious social crisis.[4] Multiple resources and societal crisis is entering an age of the climate change system and its impact as a crisis, which is adding to the complexity of the situation in 2009.

The scenario of USA and the global humankind society entering globalization age or the energy, drinking water, food, credit and societal crisis has been excellently elaborated and presented at Global Future Analysis 2008 by Planck Foundation, www.planck.org and the second presentation Global Resources Analysis draft version 2008 by Induscorp.nl at volume1@induscorp.nl. Both analyses were managed by excellent researchers' teams. The brilliant social scientists have been dealing with humankind and its humankind-centric thinking. The teams' complex system thinking and their co-operation with nature scientists enabled a more complex but more truthful analysis.

Actually, what is the missing part is the climate change system's impact and changes in the biosphere (0 – 3.3.; 12-14; 38; 41; 45;), which are going to have broad impact on the present living conditions for all creatures living on the planet Earth.

[3] Please see: Ecimovic et al: The Sustainable (Development) Future of Mankind, 2007, displayed at www.institut-climatechange.si; and Bozicnik, Ecimovic, Mulej et al: Sustainable Future, Requisite Holism, and Social Responsibility, 2008, available at IRDO.

[4] Please see: Planck Foundation (www.planck.org): Global Future Analysis, 2008, ISBN 978-94-6012-001-5, and Global Resources Analysis by Induscorp, NL; e-mail: volume1@indiscorp.nl

The group of enthusiastic philanthropist many years ago commenced ever lasting path of global human society leadership on direct democracy basis by The World Parliament, The Constitution of the Earth Federation, and The World Government (1-3.3.; 58;).

The issue of the sustainable future of humankind (3.-3.3.).

The question which we are putting forward is the sustainable future of humankind.[5] The integrated complex system thinking style is needed for analysing it. Globalization age has its complex issues as they are, regardless humankind does see them or not. Or otherwise very complex issue of the humankind problems of 2008/2009 should be put into the frame of living space/environment of humans – the biosphere, taking into account the simultaneous problems evolving within the biosphere, plus their synergies (3.-3.3.; 78;).

What we are presenting is a broader analysis of more complicated/complex Nature of the planet Earth and global humankind society situation at 2009. As system thinkers we are analysing statuses of the different origin of both humankind as a system/entity of its own and a part of the planet Earth system – THE BIOSPHERE.

The biosphere, which is the frame within which global humankind civilization has a living space, has evolved the situation of the climate change system impact, during the rise of the Globalization Age.

The Climate Change System[6] (0.-3.3.; 14.-16. 32.-35.; 37.-41.; 43.; 45.; 76.; 77.) **Provide, makes, holds and guards** living conditions within the biosphere of the Earth; it has a more important role as humans were thinking in the past. To these conditions all living creatures must adjust to survive. A number of the extinctions of species, smaller and larger alike have resulted from changed environmental qualities, caused by changes within the climate change system.

Systemic thinking (0.-3.3.; 39.-40.; 46.; 78.) enables us, better than single specialists alone, to see that the Earth's biosphere is made as a synergy resulting from ***interdependences, interactions and co-operation*** of matter, energy, and information within the time frame, and has three bases – Water, Land and Air environments. To be ready for changes, and mitigations due to the climate change system impacts, all of us single representatives of humankind must learn more about the basics of the biosphere and the Nature.

Systems theory (3.2.; 3.3.) **– A tool for humans to understand the climate change**

System theory, thinking, synthesis and analysis as researcher tools are allowing researchers to reach beyond the classical science approaches. As thinking process it could define the climate change system in an understandable presentation.

The term system has many contents. Here it will mean to us neither the mental picture about the event or process dealt with nor a usual method of work or a socio-economic or other order nor a network/complex of plants or stones or humans fitting together somehow. The term system will here rather mean to us a feature/event/process that is so complex in its

[5] Please see footnote 2.

[6] Please see "System Thinking and Climate Change System – (Against a big "Tragedy of Commons" of all of us)", pp149 Ecimovic, Mulej, Mayur, 2002, ISBN 961-236-380-3, and "The Climate Change System – Introduction", pp 35, Ecimovic, Mulej, 2008, ISBN 978-961-91826-5-9, both displayed at: www.institut-climatechange.si

components, relations and influences between them and their consequences that it is difficult to comprehend and even more difficult to control.

This is why we call the climate change a ***system*** (3.2.; 3.3.). Understanding and/or controlling it per parts is not very helpful, because as a whole a system has attributes that differ essentially from attributes of each one of its parts alone.

Clear cases: the edible salt is a synergy/system of two poisons; water is a synergy/system of two gases; an organization is a synergy/system of many – different from each other, unavoidably, and hence complementary – professionals; a house is a synergy/system of bricks/concrete/wood, doors, windows, electric, water and other works, etc.

Synergies emerging from their attributes provide to the new whole/system new attributes.

Therefore, the truth will be easier to discover, and difficulties and happenings easier to control, if the feature/event/process is considered as holistically as possible rather than per single parts. This is called systemic or systems thinking.

A total holism of human behaviour, i.e. monitoring, perception, thinking, emotional and spiritual life, decision making and action, and a total wholeness of insights and outcomes, is usually impossible to attain, but a single specialization – a single viewpoint of profession – limits humans to fictitious holism providing for fictitious wholeness. This fact makes us apply the Mulej/Kajzer (1998) law of requisite holism as the suitable one.

In the case of the climate change system this would mean the understanding that synergies of insights from physics, chemistry, biology, history, technology, economy and several more disciplines and practices are needed. One would chose and collect professions and viewpoints that one would consider essential and interdependent for mutual completing up by differences.

Following the ancient Greek philosophy one would link them on the basis of their interdependence or – in the Greek wording – dialectics (0.). A dialectical system would show up (Mulej, 1974, see Mulej et al, in press). In this case a system is not meant to be a complex feature, but a mental picture about it, which we introduce in order to attain the requisite holism of human behaviour and requisite wholeness of its outcomes.

For[7] over 12 thousands or more years of Homo sapiens evolution, human society was first scattered in the most suitable environments which offered security, water and food, and later shelter and a fire place. Humans have progressed from a hunting and gathering tribal life, to antiquity, medieval, pre-industrial, industrial, postindustrial, informative, innovative, and now to a global society – Globalization Age. The synergy of this represents the leading edge of current existence; a reality borne of a fast changing environment in terms of the quality of planet Earth's environment. The biosphere and the living environment have been changing from a suitable one lasting some 12.000 years to a threatening one as a result of recent evolution (3.).

[7] Presentation has been put together from the book "The Sustainable (Development) Future of Mankind", Prof. Dr. Timi Ecimovic, John M. Bunzl, Prof. Dr. Mark Espozito, Sir Prof. Dr. Roger Haw, Prof. Dr. Matjaz Mulej, Prof. Dr. Warren Flint, Prof. Dr. H. A. Shankaranarayana, Prof. Dr. Peter A. Wilderer, Prof. Dr. Lloyd C. Williams, and contribution from Ms Roshni Udyavar, September 2007, displayed at www.institut-climatechange.si

The planet Earth's natural system has been maintaining itself for more than 4.6 billion years (4.600.000.000) with many ups and downs with respect to quality of living conditions and other complex contents. With the evolution of humanity's environment (human eco system), the natural system has recently come under stress, and changes in the quality of living conditions are consequently taking a new turn. The natural system is using its system qualities and quantities as its permanent practice under the rules of **interdependencies, interactions and co-operation**. We cannot change living conditions but we may or may not fit into them. When we explore and gain knowledge of how the natural system and its ceaseless 24-hour processes operate, we will have a chance to properly understand the good and bad impacts of our society on its operation (0.-3.3.).

The planet Earth is not our civilization's personal playground, and it does not belong to us. In fact quite the opposite since we (our civilization as a whole) are only one group of living creatures living on the globe's surface (mainly the terrestrial environment). We have been, and are trying, to accommodate ourselves very well to the quality of living conditions during our civilization's time. But recently (during the last 200 – 300 years of the industrial and subsequent era) our impact on the biosphere has been triggering a reaction from the natural system. The resulting new conditions do not benefit our civilization, but rather the contrary.

The impact of our civilization could be summarized in the following way: Our civilization's first settlements were built some 14,000 years ago, as a result of the social life-improvements of pre-antiquity humans. The first settlements on European lands were built in swampy areas for security reasons, and the population consisted of up to 10,000. This was a result of the changed conditions within the biosphere which evolved after the last ice-age, which ended some 60,000 – 16,000 years ago. Since then the climate change system conditions at the biosphere of the planet Earth have been of almost the same quality right up to the present time. Changes have, of course, occurred but not as extreme as the ones we face now. The difference between today and 200 years ago is due to the extreme input of our civilization's output into biosphere including all sorts of waste, the side-effects of nuclear technologies, synthetic chemicals, the human population explosion and its consequence, which can be seen in the destruction of the biosphere due to the ways that human needs have been met.

The climate change system as an integral part of the Earth's biosphere has a bigger influence on our civilization than humans think or believe. In absolute terms the climate change system is **provider, holder, maker and guardian** (0.-3.3.) of the living conditions which make our life possible. But we humans are doing our best, through our "modern" relationship with nature and each other, not to appreciate this fact. Instead we harm the climate change system as much as we can, yet fortunately not as much as we think we may.

It is ***not the planet Earth*** that is the home of our civilization, but ***the biosphere***, which is a tiny part of the planet Earth system. Vulnerability of the two are two, not even comparable issues.

With present global societal complex relations, systems, and characteristics: Human environment or human eco sphere, which has not much of connections with the Nature rather contrary; Homo urbanus, which will reach peak of 80% of total global mankind civilization soon (2020), meaning the total of 80 % of population will live at fragile environment of our cities; global human society has replaced the Nature knowledge by urban ethics and life style at human environment. We think our global society philosophy, education, ethics, family life, and societal complex issues should undergo renovations for the needs at third millennium.

Our civilization common enemy (1.; 2.) are consequences of the impact of the climate change system at the planet Earth biosphere/our living space. It has been elaborated at the book "Our Common Enemy (The Climate Change System Threat)", Ecimovic ET all 2006, discussing and directing to the quality of the living conditions at the Biosphere. The quality of the living conditions within the Biosphere has been changing due to combine action of the impact of our civilization and respond of the climate change system. Beginning was when release of the Chlorine atoms as result of use of CFC's – chlorofluorocarbons (0.; 3.2.; 3.3.) in commerce, society, industry, households etc of Homo sapiens civilization. Chlorine atoms commence destruction of the ozone layer, the planet Earth only defence system against harmful rays coming from the outer space within the star Sun living system. The ozone layer is one of preconditions for success of living nature on the planet Earth.

It is elementary to have common threat, which may bring our civilization to have better chance for survival. "***Our Common Enemy"[8] is the climate change system.***

The Nature – it is complicated situation with our understanding of the Nature. Great achievements, discoveries and research has been done in past and present and hopefully will be done in future, but it looks like our understanding of the Nature and the Nature itself are on two banks of the same river.

Theories (0. – 3.3.).

Let me demonstrate it by presenting new views on the reality of the Nature. The new »The Environment Theory of the Nature« (Ecimovic 2009) 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.

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:

- 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

[8] From the Executive Summary of the complementary book: »Our Common Enemy (The Climate Change System Threat)«, Ecimovic, Amerasinghe, Breki, Shankaranarayana,Chumakov, Haw, Wilderer, and Martin, 2006, ISBN 961-91826-0-X, displayed at: www.institut-climatechange.si

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 20th 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" in print. As usually in our life the things are having a turned-around following order and the last should be the first.

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"***[9]**,** 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[10] 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.

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

[9] ***"The basic environment"*** is novelty in understanding of the Universe as environmental precondition for having anything – The Nature and evolvements within it.

[10] From the book »The Sustainable Future of Mankind III« first draft, Ecimovic at all please see at: www.institute-climatechange.si .

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[11], 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[12] 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. 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.

[11] 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 all, 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

[12] The sustainable future of humankind is harmony of our civilization with the nature of the planet Earth, please see at foot note 2..

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 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, our star Sun system, and it is going on even today. 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 evolvements 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 evolvement ahead***". Direction of the evolvement 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 evolvement according to the direction of the evolvement 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 or 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 terrestrial, the water and the atmosphere's lower part environments.

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 and sanitary 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,

I would like to 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). I think it has served the purpose of presenting the gap between present knowledge and the knowledge possibilities for research and learning in future.

And ….

Life, even survival of us, the modern civilization, depends on conditions provided by the *Nature* in which we human all live, and by the climate change system as an integral part of it. The Nature, Cosmos/Universe, Milky Way, Solar System, Earth, Biosphere, climate and climate change systems, terrestrial, water and air environments are *no simple systems* (features, entities, and processes), but very complex and complicated. The time – *duration, continuance (Webster)* as it is accepted, used and understood by humans and our civilization may look completely different from the *nature* point of view. The nature does not recognize our common term "time".

The climate change system impact is changing living conditions at biosphere of the planet Earth, in general, and is result from natural processes and/or human interventions. Both kinds of impacts can cause consequences, which are both good and bad by human criteria. E.g. from a rather one-sided/narrow/shallow/oversimplifying viewpoint the changes in the human life over the last 2 – 3 centuries are bringing the so called *progress*: more comfort, a higher standard of living (for part of humanity) on the basis of many technological and non-technological innovations.

Philosophy of sustainable future of mankind is the search for knowledge and understanding of the nature and meaning of the universe and life.

The sustainable future or harmony of global society with the Nature of the planet Earth, and its coexistence with other creatures in nature as a part of the Earth's biosphere is the solution, to the best of our knowledge, which should be adopted as the vision for our survival. We need a society wide global approach, and not the dilution of scarce financial means, for ***it is impossible to buy the survival of mankind with a financial approach however great***.

With commencement of awakening of mankind in sixties of 20th century, on needed quality of environment, as basis for life of mankind and all creatures on the planet Earth, it is also commencement of sustainable development concept/strategy/vision (50.).

Our collective awakening regarding the difficulties that our Earth faces was excellent; however, it did not change most people's short term values. The problems of sustainability of mankind and the planet Earth are much more complex than were understood at the end of the 20th century.

The first part of the "sustainable development" (0.-3.3.; 4.-13.; 15.-40.; 43.; 46.; 48.; 50.; 56.-57.; 62.-75.; 77.) – "sustainability", is much more important and has real value for the future of mankind. Second part, "development" is a term that is often misused from the industrial revolution and world of economics, and has nothing to do with Nature of the planet Earth. When we use the term "development", we are referring to products, construction, man-made systems, repairs, machines, armaments, etc.

Development is a part of human society of post-industrial era. Nature has no "development" whatsoever, and natural system works on contents and under the rules of ***interdependences, interactions and co-operation***[13] relations and it is always at present.[14]

What is needed is a New Approach[15] (57.) as the introduction of global society system relations, values, ethics, contents and mechanisms, which should assist as to transcend to a sustainable future of planet Earth's human global community.

What is necessary for the survival of humankind is to introduce the concept of a sustainable future of humankind by attaining harmony with our environment and the nature, since present society have lost touch with the nature.

Sustainable future of local community leads to the sustainable future of mankind (3.-3.3.).

It would be easy to write at length on the concept of sustainable development, but that is not the purpose of this presentation. Our purpose is to transcend from sustainable development to sustainable future as concept, policy, technique that is needed for the survival of mankind. The follow up from sustainable development should be accomplished with all possible co-operation of mankind to sustainable future, and by mitigations of the climate change system impact on the biosphere of the planet Earth.[16] The goal of sustainable future is a most complex issue, which

[13] ***Interdependence, interaction and co-operation*** as constant engine of the Nature has been described at the book System Thinking and Climate Change System, please see www.institut-climatechange.si .

[14] System Thinking and Climate Change System – Against a big »Tragedy of Commons« of all of us, 2002, Ecimovic. Majur, Mulej and "The Information Theory of Nature, and .....", 2006, Ecimovic, are opening discussions for understanding present by our civilization, and this presentation.

[15] New Approach as needs for restructuring of global society has been introduced by Prof. Dr. Slavko Kulic, IOM, from Zagreb, Croatia, but it is still within science, and is waiting for better time to be understood and used.

[16] Please see complementary book »Our common Enemy – The Climate Change System Threat"« at www.institut-climatechange.si .

could be undertaken with consent of all humankind and with a real dedication to fulfilling its goals.

It is pertinent at this point to provide a short description of "sustainable future": **Sustainable future of mankind is harmony of the humankind system/civilization with system of nature/biosphere of the planet Earth.**

It is a short description of a very complicated and complex concept of present global human society and its basis – the biosphere of the planet Earth. We believe that all good work of countless individuals towards achieving sustainable development should now be reoriented to the more complex concept of achieving a "sustainable future".

However number of important issues have been mentioned, but not to forget, many more of them have not been mentioned. We believe that it is important to understand all simple and complex issues needed for transcend of present global society to sustainable future human society of the third millennium.

People, values and knowledge have been making an epic song of our civilization, which has been going on since humans have existed. And so has other nature, including ***whole*** Universe; Milky Way; The Solar System; The planet Earth; Biosphere; etc down to fundamental particles – quarks, protons, neutrons, electrons, relativity theory, and the information theory of the Nature, the environment theory of the Nature, quantum mechanics and atom structural understandings. We people are a part of nature, although this has been admitted less over the last three centuries than ever before.

The climate change system ultimately would change living conditions within the biosphere and geography of the Earth so much that our civilization will end. Therefore we are presenting the climate change system as common enemy of our civilization, and sustainable future concept as path for survival or future of our civilization, and we are

RECOMMENDING[17]

One planet, one government **is first recommendation. Of course, The Constitution of the planet Earth Federation is first and the planet Earth Parliament and Government follow in line, after ratification of The Constitution of the planet Earth Federation.**

Secondly recommendation is a new approach to the *social order***, which has to reflect the present experience, and the establishment of a** *new contract for humankind* **living on the planet Earth. The goal is to prevent explosion of humankind reproduction, enforce ethics and respect amongst peoples of the Earth, enforces (a globally holistic!) law and order, and with skilful governing allow the coming generations to live and have sustainable future[18] on the planet Earth.**

Third recommendation is *redirections of scientific work* **from innovations of war armaments techniques and technologies for destruction, too narrowly market and money-oriented synthetic chemicals technologies, too narrowly market and money-oriented energy technologies, too narrowly market and money-oriented genetic manipulation techniques, societal management based on money monster - the master practices, etc., to discovering**

[17] Taken from Recommendations written at the book Our Common Enemy (The Climate Change System Threat).
[18] Sustainable future is harmony of humankind and the Nature/Biosphere of planet Earth.

viable global systems of nature, space, the environment and universe/cosmos, as essential elements of knowledge needed for survival and sustainable future or harmony of our civilization with the Nature.

In conclusion: "Be the change you want to see in the world" (Gandhi).

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