



**Prof Dr Dr h c Timi Ecimovic, Sir Prof Dr Roger Haw and Prof
Emeritus Dr Dr Matjaz Mulej**



“Nature and Social Responsibility”

The digital scientific book

To Humanity!

Zg. Medosi, Korte, Slovenia, EU, October, 2015



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1. Introduction:

The life is beginning of everything and depends of understanding. An end of it is the death and depends of understanding. It is end of understanding and depends of understanding. What we are presenting - is thinking about the present time and survival of the global community of humankind.

We do not have a living and non-living Nature, but only one **Nature** of which the planet Earth is so small - like a grain of sand and even less.

“Living nature” according to the present understanding means protozoans, bacteria, viruses etc., plants, animals, global community of humankind etc. This is deeply wrong. Nature in general and the nature of the planet Earth do not have a living nature and a nonliving nature. Nature is a complex system, is entity, with countless number of happenings, forms, statuses and with countless attributes. Our humanity thinking of a living and a nonliving Nature has been created by creation and protection of creation as the only one right way for humankind on the planet Earth. It is a reason that at present we have difficult times to reach longevity for humans.

We think the basic knowledge is philosophy or by other words understanding of Nature as everything that exist. Of course it is not only on the planet Earth but in Nature as whole – the Universe as the basic environment for the Nature. We are opening a new chapter of research work directed towards the better tomorrow of the global community of humankind. It is presentation of **social responsibility** as an important content of Nature.

After the Climate Change System (2002), the Information Theory (2006), the Theory of the Environment (2009), The Principia Nature (2011), the Sustainable Future of Humankind and Xiamen Declaration (2011/12), the Corporate and Individual Social Responsibility research work over 2000 – 2015 period, Nature and the Requisite Holism (2014), The Anthology 2, 2001 – 2014, we shall do our best to make understanding of “Social Responsibility” by present humankind as a needed improvement of the quality of life and longevity of the global community of humankind. The social responsibility is the basic principle for longevity of social creatures in the nature and biosphere of the planet Earth as well as anywhere in the Universe.

Dear reader this book is meant for you and longevity of humans on the mother Earth.



The Authors

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3. Executive foreword by Sir Prof Dr Roger Haw Bon Hong

Indeed with this e-book we are opening a new chapter of research work directed towards the better tomorrow of global community of humankind. It is a presentation of social responsibility as an important content of Nature.

Therefore, it is important to relate social responsibility intuition which is widely assumed to play an important evidential role with social responsibility practice inquiry. Thus, social responsibility principles are sometimes said to be justified either if, or only if, it achieves a good match with social responsibility and its ethical intuitions.

When and how appeals to social responsibilities are appropriate, and what their epistemological significance is, are questions often left unanswered by those who emphasis their evidential role in ethical inquiry. The presumptive credibility of social responsibilities can be challenged in a number of ways. One obvious challenge arises from the factual disagreement between social responsibilities and intuitions. Thus, when social responsibilities principles use thought experiments to draw out our social responsibilities practice it is rare that everyone swings the same way, even within the same social context. A second challenge arises from the apparent lack of coherence between social responsibilities and intuitions within the same person. This problem is illustrated by the case with which many of us are prone to get stuck when trying to social responsibly distinguish between variants of the same thought experiment, such as killing one person in order to save five.

Philosophical uses of the term ‘social responsibilities intuition’ are many and varied. It will be useful to distinguish five conceptions of social responsibility intuition. Sometimes when moral philosophers use the term ‘social responsibility intuition’ what they have in mind is nothing more than a common social responsibility judgment, widely shared between thinkers in a certain domain, and endorsed regardless of explicit engagement with, or commitment to, any particular social responsibility principles.

Understanding the social responsibility intuitions are thought of as ‘immediate’ or ‘non-inferential’ judgments. Another interpretation - it is a necessary condition of a subject having social responsibility intuition that he or she has achieved at least some critical understanding of its content. The apparent self-evidence interpretation is also logically neutral with respect to



the epistemological credentials of ethical and social responsibility intuition which is described by Judith Jarvis Thomson as ‘obvious truth’.

Of course, all of us in our thinking are influenced by our upbringing, the people we associate with, our cultural and professional circumstances, the papers and books we read, and so on. Few of us can really be independent in our thinking; taking independence of thought to be genuine independence, maybe in any field of human endeavor there are at most a few dozens of the really independent thinkers in each century or so, if at all.

4. Foreword

The recent observation of human achievements shows large increase of the knowledge and less and less understanding of the present. This observation has to do something with humanity’s understanding of the knowledge.

Actually since the 30st years of the XX century the shadow of money master monster philosophy has covered the truth of the knowledge and assisted upbringing of specialization as the way of assisting miss-understanding of the knowledge and its value for Nature and humankind.

Today we are witnessing more and more specializations and new sciences as ever before in the history of humankind. Later arrivals of the internet during the ending period of the XX century has opened new horizons and new sciences connected with internet. Whether it is wrong or good for humanity no one ever thought of. As a result at present we have over 90% of people with a badly end even worse understanding of the present and Nature. Of course we are a part of Nature, but our independence is putting us to the position of deciding on wrong and right, and our decision “Internet is good” allowed for the present 1% against 99% relation of humans.

Just to clear what we are discussing let us quote Prof Emeritus Dr Dr Matjaz Mulej from Maribor University and IRDO – Institute for the Development of Social Responsibility Maribor, Slovenia, published in our recent contribution on present and is as follows:

“Unfortunately, the monopolization of the entire humankind to the benefit of one single percent must be added to the above definition; so must the level of debts that is globally close to three times of the world’s global GDP (400% in Japan, about 220% in USA and China, etc.); only 15% of humans have more than six US\$ per day, while 85% have less; 85 persons own as much as three



and half billion persons combined; the nature of the planet Earth is badly damaged, natural resources are over-used and living conditions within the biosphere are changing”.

Of course we expect with the universal upbringing and education together with social responsibility as a part of the changes in the global community of humankind to reach the sustainable future of Homo sapiens civilization during this century.

Let us hope for positive evolvments of the mind and body of people to be able to achieve new evolutionary change needed for the sustainable future of humankind.

5. The Social Responsibility

The modern education prefers narrow specialization in order to generate professionals with sufficiently deep knowledge in the selected rather narrow part of the entire humankind's knowledge. The modern practitioners seem to be the ones demanding this narrow specialization from their employees. Especially the modern neo-liberal economic theory tends to neglect any coordination and cooperation except by the so called free market. Though, data show that no laureate of the Nobel Prize for economics has provided any empirical evidence that competition works better for the entire society than cooperation. On the other hand, data about the socio-economic situation in the world show a poor and dangerous result of their concept in practice:

- Monopolization rather than competition is dominating the world economics,
- The share of the richest few percent is higher than ever after the global economic crisis of early 1930s,
- 85% of the current humans earn less than six USD a day,
- Incomes of managers have grown twentyfold and in banks even more, while the employees in the western countries earn no more or even less that decades ago,
- The current number of refugees is bigger than the huge 56 million victims of the 2nd world war,
- Since the USA president has proclaimed the war on terror, the number of local wars keeps growing, which means that the 3rd world war is here,
- The fourth phase of the development of the basis of competitiveness is here for the richer 15 percent: after ownership of the natural resources,



investment in their better exploitation, and after the innovation phase, the affluence phase is dominating,

- The affluence phase provides for an easy and rich life, but at the same time it kills ambition to work hard in order to have everything necessary, because the real needs are covered and the fictitious needs provide some market and ruin a lot of nature,
- The global debts are nearly three times bigger than the global GDP, the Japanese ones are four times bigger, and the USA and China have close to 220% of GDP in debts, while the debts to nature recovering are not even included,
- The multinationals are governing over government, claiming even their right to be reimbursed, if they must take care of the health of nature and humans,
- As a result, the nature and the society are so badly damaged that NASA etc. project a very dangerous future: in only two decades the world population might be decimated.
- Etc.

The common denominator of all the briefed attributes of the current global economics and natural environment of humans can be seen in the lack of systemic behavior:

- Karl Ludwig von Bertalanffy (1901 – 1972) wrote very clearly that he
 - o Had created his General Systems Theory against the over-specialization,
 - o Sees no bright future unless humans become citizens of entire world rather than of single countries and care for the entire nature rather small pieces of it only;
 - o The notion system covers holism/wholeness rather than a narrow specialization; it relates to concepts that used to be considered metaphysical rather than scientific [because science developed the narrow specialization and delimitation of single (sub-) disciplines].
- Norbert Wiener (1894 – 1964) created his Cybernetics in interdisciplinary creative cooperation;
- Therefore, not every complex part of the real life, even less every single topic of consideration may be called a system, but only the one that is worked on in an interdisciplinary creative cooperation – of the interdependent professionals.
- Both Bertalanffy and Wiener are poorly considered now, which causes very dangerous consequences for humankind and its natural preconditions of survival.



In the late 20th century the concept of social responsibility started to be changed *from being nice and do charity* to a much broader concept that is very close to an indirect revival of systemic behavior. In 2010 these efforts resulted in the international advisory standard ISO 26000 with its three basic notions:

- Social responsibility is defined as everyone's *responsibility* for their influences on humans and nature, i.e. on society;
- The seven basic contents are summarized in a circle, which is broken at its bottom for the concept *interdependence*,
- At the top the same circle is broken for the concept *holism*.

These three notions summarize the essence of the concepts of the (grand-) fathers of systems theory and cybernetics, briefed here earlier. What is added to their concepts is important too:

- The seven principles fortifying the mentioned three basic notions;
- The seven steps of making the systemic behavior by social responsibility the practice.

The ISO 26000s seven steps of integration of Social Responsibility - SR can be divided in two groups (author's note):

a) Insight into the given practice:

- 1 the relationship of an organization's characteristics to SR
- 2 understanding the SR of an organization
- 3 practices for integrating SR throughout an organization

b) Resulting action for more SR:

- 4 communication on SR
- 5 enhancing credibility regarding SR
- 6 reviewing and improving an organization's actions and practices related to SR
- 7 voluntary initiatives for SR.

Thus, the seven principles of SR can become reality:

- 1 accountability
- 2 transparency
- 3 ethical behavior (Ethical behavior is defined as: values of honesty, equity and integrity, i.e.: concern for people, and the environment and *commitment* to address the impact of its activities and decisions on stakeholders' interests.)
- 4 respect for stakeholder interests
- 5 respect for the rule of law
- 6 respect for international norms of behavior
- 7 respect for human rights.



On this basis, the humankind has a better chance of survival.

The seven core subjects cover everything essential; they are quoted in ISO 26000 (ISO, 2010): governance, management, organization; labor practices; environment; fair business practices; customers; human rights; community involvement and development. They are to be considered in interdependence and synergy based on two linking concepts: interdependence, and holism.

ISO 26000 states very correctly:

“An organization should look at the core subjects holistically, that is, it should consider all core subjects and issues, in their interdependence, rather than concentrating on a single issue. Organizations should be aware that efforts to address one issue may involve a trade-off with other issues. Particular improvements targeted at a specific issue should not affect other issues adversely or create adverse impacts on the life cycle of its products or services, on its stakeholders or on the value chain.”

This clear definition requires the concept of holism and hence the concept of holism and wholeness to be more clearly defined as many authors in systems theory and cybernetics do due to their specialization, which contains little or no education in interdisciplinary creative cooperation.

This requirement recalls and supports systemic behavior (more in Mulej et al., 2013) and hence requires any effort to meet the Mulej and Kajzer (1998) *law of requisite holism* that states:

- Holism that is restricted to one single viewpoint is fictitious and misleading, making people forget that other viewpoints explore other parts of attributes of the same reality, and their insights are complementary to the ones from ‘our’ viewpoint.
- Holism is real only, when it is total to cover totally all attributes from totally all viewpoints and totally all their synergies. This reaches beyond human capacities, even in a team’s interdisciplinary creative cooperation.
- Hence, the requisite holism lies between these two extremes. It can be defined only for every single case; authors must accept their responsibility for their choice of their selected ‘dialectical system’, i.e., their synergetic network of their selected essential viewpoints and relations and resulting synergies.

ISO 26000 is supported by the European Union (2011) as the way out from the current crisis; equal support is offered by several international organizations, including the ones of enterprises. Thus, the real humankind’s problems are the



most influential and greedy individuals and their global corporations. They are ruining the entire world, including the world of their own children and grandchildren, by their big impact and lack of social responsibility, i.e. of systemic behavior. To them, the war is no problem, but a chance for profit, while the broader and more long-term consequences are left aside.

Thus, the problems of survival of humankind are hidden more in values, culture, ethics, and norms, than in scientific knowledge:

- **Education should go in the direction ‘knowledge-cum-values’ rather than knowledge alone,**
- **Practitioners should require, and get, professional with**
 - **Ethic of interdependence,**
 - **Capacity of and deep devotion to**
 - **Interdisciplinary creative cooperation rather than individualism with over-specialization,**
 - **The rather broad and long-term criteria of efficiency and effectiveness.**

We are discussing “Social Responsibility” from the view-points of the philosophy and the knowledge of Nature. The social responsibility we are discussing here is a novelty of understanding and at present it is not known to the most of humanity due to the evolution. But first is first and let us commence with the present

“The Present is Summary of the Past and the Future is Unpredictable”

It is hard to accept the truth. Philosophy of humankind as the main treasure of the humanity, is asking for consideration of the truth. The present of the global community of humankind as a whole of the Homo sapiens species with 7.000.000.000+ individual representatives within 200.000 year of coexistence has recently opened questions about the truth and option for long-lasting of humans within the biosphere of the planet Earth.

People of the Earth are of one kind – Homo sapiens species. There are no **races** among humans, but only different looks as per evolution within the local environment-cum-culture-nature and nurture.

Humans as species are social creatures, and are among omnivorous – meaning eating any sort of food – both animal and vegetable food. It is also part of human heritage from Nature.



Everything that was born may look like many different or similar things, but it is its individual characteristics that make the difference. At present, humankind's global community has 7 billion+ individual members and all of them are Homo sapiens, but each and every one has his/her own characteristics.

Therefore our civilization has 7 billion+ individuals. This is important, because we have to accept reality that within the basic environment - the universe system - there are countless planets, but the planet Earth with global humankind community is the only one, which we know and live on.

The history of humankind has covered approximately 200.000 year¹. Discussing social creatures in Nature or in the nature - biosphere of the planet Earth makes it clear that humankind's history belongs to the short histories. Longer histories belongs to social creatures like: ants, termites, many insects and bees, and other animals and plants.

Since the end of the last glacial era (in Europe) 60.000 – 16.000 year ago the environmental conditions have been within the limits allowing the living beings in the nature to prosper. With commencement of the third millennium changes took place in the environment and the social life of humanity.

Humanity is lacking **eco-bio-centric philosophy and the knowledge on the nature of the planet Earth's operations, networking and synergies. The individual social responsibility is among the missing qualities of the present humankind.**

“The Individual Social Responsibility” is the individual's responsibility for impacts on humans and Nature, it is a part of Nature and could be defined as: ***“The individual social responsibility from the natural sciences' view-point is the ability of living beings to understand and respond to the living environmental qualities and needs for continuum of the humans and other beings and species”.***

“The Social Responsibility” is everyone's reposnsibility for their impacts on society and Nature”.

Herewith we shall use our term “Social Responsibility”, which is a part of Nature and social creatures wherever and however also on our star system Sun and its planets together with the Earth, the planet we are living on.

¹ Interesting how history keeps data on ages of the Homo sapiens global community. From unknown commencement of the planet Earth – The Naturalist and +, 2 million year XIX century, and in 1955 was estimates 500.000 year. Our calculation has been based on present scientific data.



We are quoting Prof Emeritus DDr Matjaz Mulej in the electronic mail to “Human Wrongs Watch” on July 25th 2015 “See another proof of the need for our efforts for social responsibility as informal social behavior, based on ethics of interdependence and aimed at (requisite) holism – survival of humankind”.

Social responsibility should not be understood as a part of the Corporate Social Responsibility and any other discussed responsibility, which are as they are and herewith we are introducing the knowledge of Nature, which has not been practiced within the global community of humankind at present.

The natural social responsibility of humans as part of the natural sciences needs to be established. Rebirth of the forgotten quality of humans and other creatures within the “living nature”² is badly needed for long-term survival of living creatures under changed environmental/living conditions within the biosphere of the planet Earth and larger.

Individual representative of Homo sapiens with social responsibility learned from his or her mother, father, school and life will try to be in harmony with the Nature of the planet Earth. The path to be followed is a path of one’s whole life learning or life-long education.

Our present has been influenced also by three social issues of recent origin, which are as follows:

The Sustainable Development – has been the outcome of the “Our Common Future” report 1987 where the definition of sustainable development was stated as follows: “**Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs**”.

The Sustainable Future of Humankind – has been announced at Xiamen, China, on 25th September 2011. The short definition is »***The Sustainable Future of Humankind is Harmonious and Complementary Coexistence of Global Community of Humankind and the Nature of the planet Earth***«.

The Globalization is defined in the “Global Studies Encyclopaedia”, Mazour, Chumakov, and Gay, 2003: »**Globalization is amalgamation of national economies into united world system based on rapid capital movement, new informational openness of the world, technological revolution, adherence of the developed industrialized countries to**

² The »living nature« has been a practiced term making difference between the Nature and living creatures civilizations. We think it is a misunderstanding of the truth about Nature in general and the nature of the planet Earth.



liberalization of the movement of goods and capital, communicational integration, planetary scientific revolution, international social movements, new means of transportation, telecommunication technologies and internationalized education«.

“Unfortunately³, the monopolization of the entire humankind to the benefit of one single percent must be added to the above definition; so must the level of debts that is globally close to three times of the world’s global GDP (400% in Japan, about 220% in USA and China, etc.); only 15% of humans have more than six US\$ per day, while 85% have less; 85 persons own as much as three and half billion persons combined; the nature of the planet Earth is badly damaged, natural resources are over-used and living conditions within the biosphere are changing”.

That is a frame within which global community of humankind is wandering at present.

6. Nature

Nature in general and the nature of the planet Earth

Among systemic, requisitely holistic, eco-bio centric and many more philosophical and scientific approaches we used the new science of networks and complexity, swarm research, and newest entry of integration and disintegration as Nature’s operations.

We are reporting what is needed for understanding operations of Nature general and the nature of the planet Earth. Knowledge about Nature’s operations is needed as the only possibility for longevity of humans under changing conditions for the living⁴ nature within the biosphere of the planet Earth.

Philosophy is treasure of the Humanity. Physics and other natural sciences are great, but Humanity needs more to survive the incoming changes within the nature or biosphere of the planet Earth.

Our intention is to present contemporary research on the basics of the nature of the planet Earth and Nature in general.

³ Statement by Prof Emeritus Dr Matjaz Mulej

⁴ »Living nature« is conditionally used because only we humans are making separation of the Nature in the living nature and “the non-living” or other Nature. There is only the Nature in general and the nature of the requisitely holistic unites like galaxies, stars, planets etc. The nature is one and everything that exist.



The nature of the planet Earth is mirroring Nature in general but as all planets in Nature in general – the planet Earth is a requisitely holistic⁵ unit and as such it has its individualistic characteristics. One of them is our civilization which within current 200 years of activities is on suicidal path, which threatens the humanity and probably large portion of the present protozoans, plants and animals to cease to exist.

Nature in general is the Universe or Cosmos as the basic environment within which Nature in general exist. Of course we think, it is in our dimension, which is the only one known to us. We do not have a proof of other dimensions existence what so ever. As our conclusion on this question we accept the present and we are looking forward to future research and new knowledge.

As the contemporary researchers we are glad to research possibilities for understanding of new sciences as the networking and complexity, operational research, requisitely holistic thinking, eco-bio-centric thinking and philosophy, new understanding of the integration and the disintegration, complex problem solving, with intention to understand and present it to the humanity - systems and knowledge needed for better tomorrow, because we care.

But let us take it slowly and let us present our research as well as possible. Our work is a summary of many scientists' and researchers' thinking and work from earliest sources of the Knowledge – The Vedas commencing 1500 years B.C., followed with teaching and works of Confucius (551 – 479 BC) Chinese, Greek golden era of philosophy and philosophers commencing with Socrates (470 – 339 BC), Plato (427 – 347 BC), Aristotle (384 – 322 BC) and others: all of them together have been establishing humanity's knowledge for the modern world. After the dark era of humanity till industrial revolution from 18th to 19th century with works of Copernicus, Galileo, Leonardo da Vinci, Newton, Charles Robert Darwin (1809 – 1882) who was the first ever understood the evolution, and many more scientists we are coming to the 20th century with discovery of nuclear technologies, many chemical synthetic substances, rocketry and outer space research and visits, sexual revolution (USA in sixties of XX century) and population explosion after 1960 onward. Those are some of the revolutionary changes within the planet Earth society. From post-industrialization, two world wars, new research of post-war evolution of human society, we would like to mention as was stated in our presentation in Almaty, Kazakhstan, November 2014 on sustainable future of the humankind:

⁵ Requisitely holistic unit means a system with all crucial contents possible for understanding as a whole – in Nature there are: Galaxies, Stars, and Planets as per present understanding, which will change for better with more research.



“Among the first researchers of the modern era in 1957 the British scientist **James Lovelock** in his work and later in the book *Gaia – A New Look at Life on Earth* (1979) opened new frontiers for environmental thinking and understanding of life and nature. The result of his research on the planet Earth as some living form has influenced humanity, and has been a commencement of the environmentalism. The James Lovelock work inspired **Rachel Carson**, to write the book *Silent Spring* 1962, and the establishment of the NGOs of environment protection as Greenpeace and others followed.”

And now we are in globalization era and our present as summary of the past and it is in not the best. We think our civilization needs transformation or, better, a further evolution of the body and mind to reach new steps in evolution, which may take humanity to new frontiers.

As a summary⁶ we⁷ shall present a short analysis which is as follows:

The present of the global community of humankind does not meet needs for longevity of the humanity.

It is a reason for this presentation to support needs for universal upbringing and education of coming generations of humankind.

Many years of the research have been accumulated within two digital publications as follows:

1. “The Nature and the Requisite Holism”, Ecimovic and Mulej, ISBN 978-961-92378-3-0 (pdf), 2014 and
2. “The Anthology 2 – 2001 – 2014”, Ecimovic and Mulej, ISBN 978-961-92378-4-7 (pdf), 1370 pages, 2014.

The digital books are displayed at:

Slovenian National and University Library – NUK at portal Svarog

⁶Short presentation prepared for this presentation and is from our presentation on the universal education April, 2015.

⁷Co-authors of the presentation - Prof Dr Timi Ecimovic, Slovenia, Prof Emeritus Dr Raoul Weiler, Belgium, Prof Dr Nebojsa P Ostojic, Serbia, Prof Dr Igor Kondrashin, Russia and Greece, Prof Dr Fidel Gutierrez Vivanco, Peru, Prof Dr Glen T Martin, USA, Prof Dr Dana M. Barry, USA, Sir Prof Dr Roger B Haw, Malaysia and China, Datto Dr Ang Ban Siong, Malaysia and China, Prof Dr Truly Busch, Germany, Prof Emeritus Dr Sait Kacapor, Bosnia and Herzegovina, Prof Emeritus Dr Dr Matjaz Mulej, Slovenia, Hon Ricaardoe Di Done, Canada, Prof Dr Seminur Topal, Turkey, Prof Dr Alexander Chumakov, Russia, and Prof Dr Alexander Makarenko, Ukraine, as presentation on the universal education and universal wisdom curricula towards needed education of humanity for survival, sustainable future and longevity. This presentation has been put together because we care.



www.institut-climatechange.si at small digital library and

www.izo.sik.si

New understanding of Nature in general and the nature of the planet Earth are asking for new approach to sustainable future or sustainability of humankind. The peoples of the planet Earth, the global community of humankind, the globalization, the new technologies and past 200 year before the present have been very questionable for longevity of the humanity.

With understanding of the new sciences of the networks and complexity we have been able to connect to the missing content of Nature's operations.

With the best of our knowledge we are recommending a new approach to the upbringing and education – universal upbringing and education of the humanity to allow longevity based on social responsibility.

We inhabitants of the planet Earth are a part of the whole. The whole from the viewpoint of system thinking and requisitely holistic approach is the planet Earth system, which is considered here as a part of the whole of the star Sun system, which is a part of the whole of the Milky Way Galaxy system, which is a small part of the whole of the Universe as a general system.

The operational rules and techniques of the nature are not known to us for the whole of the nature. A small part of the knowledge of it is a treasure of the humanity, and we have to research and learn much more to be able to understand more about our sustainable future.

The epic song of the humanity has commenced some 200.000 year ago. From commencement via prehistoric times and civilizations' confrontations of Neanderthal man and Homo sapiens, Stone ages, great civilizations of Antiquity and times of Confucius teachings, Siddhartha Gautama Buddha philosophy, classic Greek philosophy (Socrates, Plato, Aristotle and others), birth of Christianity and Islam religions, horrible times of medieval ages in Europe, industrialization, information, and innovations we have arrived to the globalization of today. We hope the dark ages of humanity will end, and new era of the sustainable future of global humankind society will commence during the 3rd millennium of our times.

The nature system in large meaning from the view point of the natural sciences, environmental sciences, system thinking, operational research, complex problem



solving, swarm and a case study research, new sciences of networks and complexity, and holistic or better requisitely holistic approach is the ***Universe/Cosmos***.

Universe⁸ has been described as “the totality of all the things that exist; creation; the cosmos” and “the world, or earth, as the scene of human activity” and “an area, province, or sphere, as of thought or activity, regarded as a distinct, comprehensive system”.

To us the Universe has many definitions and descriptions and more, which will come with future experiences and research. We would like to mention some:

- The Universe system is the most complex system humankind could research,
- The Universe system is the environment for Nature,
- The Universe system includes totality of all things that exist,
- The Universe system is unmeasured and so immense that it is hard for humans to understand its immensity. We need new standards for research work on the universe.

The Universe system, as environment for Nature or the ***basic environment***⁹ discussed concerning Nature from the quality-internal viewpoint, could have the following characteristics:

- The Universe system has no commencement and no end,
- The Universe system contains all matter, energy, information, dimensions, light, rays, powers and forces, particles, transformations and other contents not yet known to humankind,
- The Universe system functions are systemic: interdependences, interactions and co-operation, synergies and networking.
- The Universe system as the basic environment is environment for the ***continuum*** of Nature with all happenings, transformations, dimensions, networking, integrations, disintegrations and systemic relations.

The Universe system, from the formal viewpoint, could be seen as composition of the environments, larger and smaller ***requisitely holistic units***¹⁰, presently to us known as Universe or Cosmos, galaxies, stars, and planets systems. There is a large content of smaller energy and matter forms. Of course, it is within the

⁸ Universe in Webster 1986

⁹ The basic environment has been first discussed at »The Environment Theory of the Nature«, Ecimovic, 2009.

¹⁰ “The requisitely holistic unit” term comes from the Mulej and Kajzer (1998) »Law of Requisite Holism« as practical application within the natural sciences. As description to assist, we may say; the requisite holistic unit is the smallest but yet still understandable whole. Synergy of all crucial viewpoints is considered. In case of future reduction, the understanding is decreased.



present dimension, which we see, and does not exclude other dimensions not known to us at present.

The universe system is the *basic environment*¹¹, meaning that within it, the present Nature is at home, and as such, it is precondition for Nature's existence.

The requisitely holistic star Sun system is a part of the requisitely holistic Milky Way Galaxy system, which has 100.000.000.000+ other requisitely holistic star and planets systems and countless meteorites and other forms-systems of matter, information, and energy. All of them are moving like a top and circular movement around each other. According to **interdependences, interactions, co-operation**, resulting synergies, networking and complexity the star Sun system is moving like a top and with speed of app 800.000 km per hour circling around the center of the Milky Way Galaxy. The circular movement is the main physical characteristic of all larger and smaller forms of matter and energy within Nature.

Continuum

Putting the “continuum” in the center of Nature makes a huge difference in possibilities for research. The continuum is a result of the environment and its content - Nature systemic relations and operations.

Therefore, we have now the basic environment and the continuum; we have the basic requisitely holistic units, and our home the planet Earth, which is one of them. System operations networking and complexity are result of many different happenings-processes at different requisitely holistic environments, which are environment under research. In our research the operations are result of **interdependence, interaction, co-operation, synergies, networking and complexity** of all matter, energy, information, light, rays, powers, forces, particles, dimensions and yet unknown contents of Nature.

Evolvements within the nature are the result of all matter, energy, and information permanent interdependence, interaction, co-operation, networking, complexity and resulting synergies. The nature is in only one form - “*present*”.

For humans it is possible to learn and research the past, we may observe present, but the future is unpredictable.

¹¹ Basic environment has been term introduced by the Ecimovic in his book/work »Three Applications of the System Thinking«, Ecimovic, 2009.



The nature of the planet Earth mirrors Nature of the rest of the Universe. Second to that, the planet Earth is a requisitely holistic unit or planet, a member of the planets of the requisitely holistic star Sun system. It is orbiting the Sun within the distance, which allows the environmental conditions allowing life to prosper. It is within the so called living belt of Solar system. Actually the Earth's biosphere environment has conditions suitable for life. The first life appeared on the Earth around 3.8 billion year ago. The anaerobic one-cell protozoan was the first creatures, which evolved because of suitable environment conditions and happenings – movements, processes, networking and resulting synergies. All the rest of creatures in history and at present are summary of the evolution.

The requisitely holistic planet Earth planetary system is very robust. The planetary body, at present, has an inner core of 1.500 miles in diameter composed of iron and heavy metals, an outer core of 1.400 miles, a lower mantle of 1.400 miles, upper mantle of 400 miles and the crust of 2 – 45 miles in diameter.

On the top of the crust, there are permanent dynamic changes caused by the natural powers by which the Earth's surface has been and is shaped. The atmosphere covers, protects and completes the biosphere of the planet up to 650 miles or 1.000 kilometers, where the Exosphere is ending into the outer space. The main subsystems of the Earth are: its planetary body, its Moon, and its atmosphere. Its planetary body has 8.000 miles or 13.000 kilometers in diameter. The Earth is the fifth planet by diameter in the star Sun planetary system. The largest one is Jupiter with an eleven times longer diameter, and the smallest one is Pluto¹² with around one fifth of the Earth's diameter.

The surface of the Earth together with its atmosphere makes its biosphere, where we live and where the life has been a part of its system for more than 3.8 billion years. At that time in history the first appearance of the microbial life could be placed.

The climate change system is **provider, maker, holder and guardian** of the environment conditions within the Biosphere, and internal system of the nature of the planet Earth. It is responsible for biosphere's environmental qualities and conditions. The “living nature” is moderator of living conditions and is interdependent, interacting, and co-operating with the climate change system.

The rise of the life on the Earth reacted to conditions of the primordial surface

¹² Data about the new 2 outer celestial bodies are not yet known to us; one missing planet might also have a questionable content within the present status of the Solar system. Pluto has been re-classified and is no longer recognized as a planet.



water environment, and its physical and other contents. It took the nature of the planet Earth some 0.7 billion years to evolve the life.

Systemic qualities of Nature and the nature of the planet Earth are making basics of the realities within the existence of any planet or star system or galaxy system and material basics of the nature of the planet Earth are:

1. Planetary body,
2. Planetary moon, and
3. Atmosphere.

Discussing the environments of the planet Earth they are:

1. Water environment,
2. Land environment, and
3. Air environment.

Planetary body was discussed and planetary moon or Moon is a specific companion of the planet Earth making it within one larger system of planet and one moon.

The biosphere of the planet Earth or planetary living space, which shares all living creatures are following environments and they are:

The water environments:

1. Freshwater environments some 3-%, and
2. Saltwater environments some 97+%.

The Water Environments are covering larger portion of the planetary body surface just below 70-%.

The water cycle – please see Drawing No. 1. - makes the difference between the planet Earth and the other terrestrial planets Mars, Venus, and Mercury within the star Sun system and any star system universe wide.



The water is a part of the biosphere and has been provided at the birth and during the existence of the Earth. The outer space bodies colliding with the planet Earth contributed large portion of the Earth waters. The water cycle is a sub-system of the biosphere, which provides the basis of quantity, and quality of the biosphere environment.

After the birth of the Earth, as soon as it had become cool enough, water appeared in liquid, ice and gas forms; the water cycle commenced its permanent action, evolvments.

As an environment it has excellent transport and interaction abilities, which probably together with other sub-systems: cloud formation and movements, lightening and natural electricity, assisted the birth of life.

Life appeared in aquatic environment, and it took almost two billion years for life to move from the aquatic environment into terrestrial lands. 97.3 % of the Earth water is there in oceans, and seas, 2.1 % in glaciers, 0.6 % in aquifers, and insignificant quantities are lakes, rivers, soil moisture, and the biological life water.

Yet the water is a needed quality of biosphere, which has been a precondition for life.

Most living creatures have between 75 and 95 % and more of water content within their bodies.

The water is the main transport system within cells, tissues and body itself.

The water is the main environment for chemical processes in nature.

The water is the main architect of nature, when carving mountains, lakes, rivers, and shaping the Earth surface.

Water movements and currents of oceans and seas are result from the temperature and salinity difference, trade winds and interdependences, interactions, and co-operation of other Earth systems – gravitation, Earth movement, air movement, energy balance, Moon and Sun gravitation, etc.

Air and water are permanently interdependent, interacting and co-operating when the water changes from liquid to water vapor, which is transported by air.



When temperature changes in the processes, assisted by the air particles (physical or biological), the water vapor changes into ice and liquid form and comes down to the surface as precipitation.

The mountains are water towers of the terrestrial surface, and the forest is the primary filter of water and its transporter to the underground. Rivers take water to lower altitudes and with their biological system they are secondary filters or conditioners of water. The river waters are the main transporter of mineral components from mountains and higher altitudes to lower altitudes and finally to the seas and oceans.

When waters from higher altitudes do not find their way to lower altitudes, lakes show up, and with their biological life they form the lake waters systems. Of course, lakes can have river water input and river water output, but the lake water body is placed under the level of water outtake. Lakes are the water storages at higher altitudes.

Swamps, swamp-forests and swampy areas are best biological filters of water, and they usually are placed at lower altitudes and as estuaries. At all locations where water (fresh or salty) and land meet there are the biologically richest regions.

The planet Earth matter exchange is possible due to water's active transporter role, and the activity of environment with biological richness, which helps our health by purifying the terrestrial surface waters. The underground waters transport water under the Earth's surface and provide water in water springs. There are large underground waters at deeper levels of terrestrial and ocean or seas bottom levels, which are there because of the Earth crust movements. They are underground lakes of waters rich with minerals and usually sterile.

The terrestrial surface water movement result for both the altitude and gravitation, and water has the golden ability to move downward (gravitation), and it has a leveled surface when staying. The terrestrial, biological and atmospheric waters are less than one percent of total waters on the Earth, but due to water cycle they are an important sub-system of the biosphere.

The present global community of humankind is a major user of fresh water taken from the nature or the Biosphere and prepared for human and related consummations. For millennia humans used water from surface sources, but with arising of the industrialization at beginning of 17th century and post-industrialization up to the present times, people stopped using surface water directly due to different status of pollution of the surface waters.



With the 21st century or at the present we are using tap water at well managed human eco environments and bottled water in plastic bottles. Both sources content quality controlled water. Of course better is tap water at well managed human eco sphere environments, and plastic bottled water is according to declared content and quality – IF.

The surface fresh waters in the biosphere of the planet Earth are polluted by global community of humankind, and trans-boundary air pollution by raining, which is a result of pollution done by the global community of humankind. As a result humans did develop strong technologies for conditioning of the fresh water, which are allowing people not to suffer from water sourced health problems. For the rest of living creatures people do not care.

We are asking responsible people to revise the water status and put together a long lasting policy for prevention of the pollution by global community of humankind. It is just a question of time, when pollution in the biosphere will reach the level, which will have a strong impact for the living nature, and biosphere in general.

Human responsibility for pollution is not questionable, but whether we may do better for the biosphere or not, it is questionable.

It is a primary task for responsible people to stop environmental pollution and consequences coming from it. It is not commercial activity or could be financed with whatsoever quantity of money. The only solution is to educate people and as result of people organized work the present pollution could come to stop!

All of us are responsible for the present status of the pollution and it is an essential goal for life of our descendants. In reality our common knowledge needs upgrading to new common knowledge, which will allow people to respond correctly. With a look at the water cycle you will agree.



THE WATER CYCLE

RESERVOIRS OF AVAILABLE WATER ON EARTH		
Reservoirs	Volume(10^6 km^3)	% of total
Oceans	1350	97.3
Glaciers	29	2.1
Aquifers	8	0.6
Lakes and rivers	0.1	—
Soil moisture	0.1	—
Atmosphere	0.013	—
Living biosphere	0.001	—

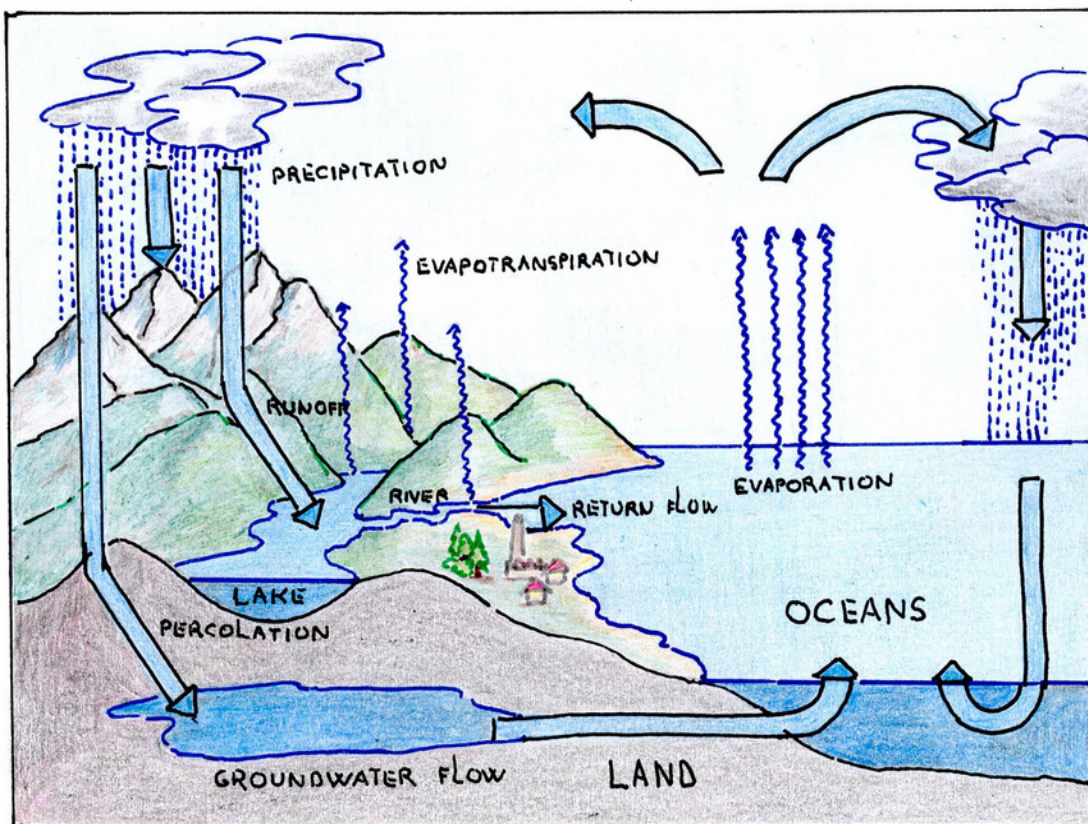




Table No 1. The water cycle drawing

The water cycle is in permanent moving quality and permanent change from water, vapor and ice forms and vice versa.

The quality of the water, within biosphere is endangered, by activities of the global community of humankind.

The second are land environments and are:

1. Polar country,
2. Moderate climate country,
3. Sub-tropic country, and
4. Tropic country.

It is according to the climate characteristics.

Geographically we have another list and it is as follows:

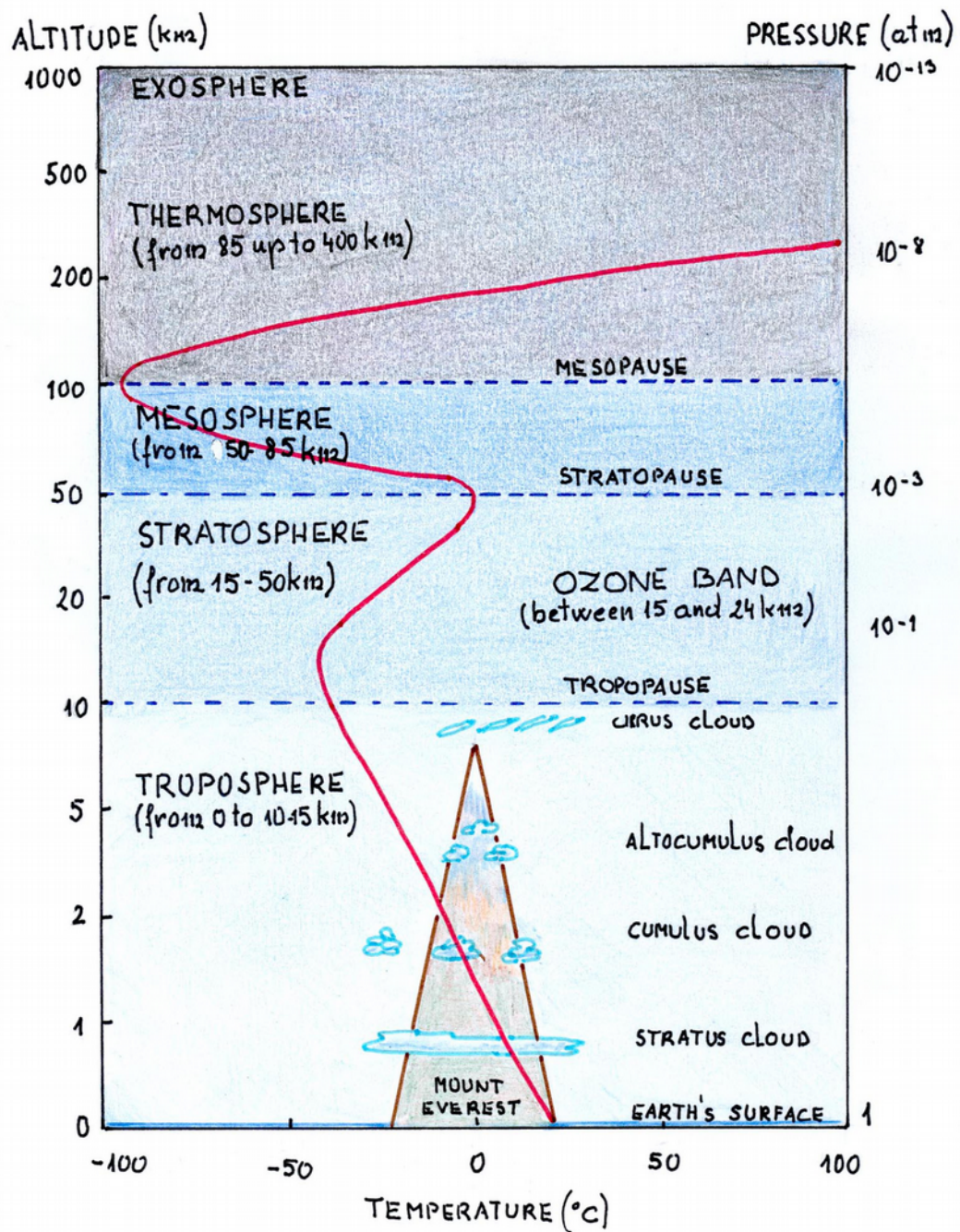
1. High mountains country,
2. Mountains country,
3. Hilly country,
4. Flat lands, and
5. Lakes, rivers and marshlands.

Biologically we have another list and are as follows:

1. Forest country,
2. Grass country,
3. Semi-desert and
4. Desert lands.

Of course we can discuss many special qualities of lands but here we listed as above for easy understanding.

The air environment is placed from surface of the planet Earth body up to 1000 kilometers altitude where the atmosphere - Exosphere is ending into outer space. A large number of creatures has atmosphere as their main environment: birds, insects, mammals – bats, and countless algae and protozoans. Please see at drawing 2.



Drawing no. 2 – The Atmosphere



The present activities of global community of humankind are endangering the quality of the air environment with pollutions like nuclear, synthetic chemical, air transport system, wars and space activities. At present in higher altitudes of the atmosphere there are lost parts of technical means from space activities up to 600000 pieces circling around Earth. Our present does not have technology to take care of this pollution.

The difference between today and 200 years ago is due to the extreme input of our civilization's output into biosphere such as: all sorts of waste, side-effects of nuclear etc. technologies, synthetic chemicals, transport system, human population explosion and its consequences; destruction of biosphere resulted from one-sided thinking and acting rather than requisitely holistic covering of the past and current needs of humans.

Since the end of the last glacial era (in Europe) 60.000 – 16.000 year ago the environmental conditions have been within the limits allowing the living nature to prosper. With commencement of the third millennium changes took place in the environment and the social life of humanity.

Humanity is lacking **eco-bio-centric philosophy and the knowledge on the nature of the planet Earth operations, networking, complexity and synergies. The social responsibility of the individual representatives of humankind is among the missing qualities of the present humankind.**

“The Social Responsibility” is the individual's responsibility for impacts on humans and Nature and it is a part of Nature and could be defined as:

“The social responsibility from the natural sciences' view-point is the ability of living creatures to respond to the living environmental qualities and needs for continuum of the humans and other living beings”.

Here we shall discuss novelty among the basics of Nature – the integration and disintegration.

Integration – at Webster (1986) - integration is an integrating or being integrated.



In our research integration is process of integrating different smaller or larger system to equal and united system, which could be integrated to higher level system or systems.

For instance Big-Bang is a local integration of energy or matter into opposite. It is a slow process being beginning, or fast being end of opposite integration and disintegration

For instance the integration of the human body is a long process or a whole life process, from birth to one's end of life.

For instance – the planet is integration of large different systems into a requisitely holistic unit – the planet and it is a whole life process.

And finally one more possibility - for instance – Nature in general is an integration and is a permanent continuity. Integration is always a slow process of putting together new systems.

Disintegration – at Webster (1986) - disintegration is to separate into the parts or fragments; break up; disunite; or to undergo or cause to undergo a nuclear transformation as a result of radioactive decay or a nuclear reaction.

Classical case of disintegration is Big-Bang (Hawking), the energy disintegrate and the matter integrate. Disintegration is Big-Bang and integration is building new systems. Whole disintegration and integration are spontaneous happenings, which follows Nature laws and are smaller or larger end and commencement of old and new systems. It is energy and matter exchange as part of the continuum.

In our research **integration and disintegration** are permanent processes within Nature in general and the nature of the planet Earth.

With this presentation we are putting information for records and initiating further research needed for survival of humanity on the planet Earth.

Our research on the basic principles of Nature in general and nature of the planets suitable for living beings including our planet Earth is showing new principles of the nature operations. System background to all levels of our understanding of the nature is needed. It is most important to increase research on Nature in general and the nature of our planet Earth to allow Homo sapiens current civilization to understand under which conditions life on the planet Earth could exist.



Secondly it is important that we living part of current civilization we are as we are meaning we are raping fruits of the past and we are not able to understand new information needed for our civilization life on the planet Earth. All what we could do is to establish new school learning curricula and system of the universal upbringing and learning as whole life education as tool for coming generations to meet challenge and living conditions on the biosphere of the planet Earth.

What we have damaged could not be repaired with short term action it will need much longer period for Nature to evolve permanent and adequate conditions, because evolution is action and only road for continuum of the life on the planet Earth.

We think Nature in general or Universe – Cosmos as basic environment and Nature as only user of it, it is story which we have to research, Nature operations are systemic networking with continuum as reason, and principles of interdependence, interaction, cooperation, networking, integrations, disintegrations, synergies, anti-synergies and requisitely holism of all energy, matter, information, basic and local environments, dimensions, lights, rays, powers and forces, particles and to humanity not yet known contents.

Let us discuss social responsibility to be reasonable explained for the purpose of the needed knowledge for future generations of humans.

We think the “Social Responsibility” could have the following descriptions:

- The social responsibility is inherited from Nature with the purpose to protect Nature itself and longevity of all creatures wherever in the Universe.
- The social responsibility is quality needed for continuum and longevity.
- The social responsibility is missing part of present humanity.
- Rebirth of the social responsibility could be achieved by the universal upbringing and education with life-long learning.
- The creatures practicing the social responsibility within the nature and within the global community of humankind are only possibility for preservation of humankind on the planet Earth.
- The present living humans have to reestablish the social responsibility with the aim for our descendants to survive.
- The social responsibility is among pillars of the Nature knowledge.



- The short definition of the social responsibility could be: **Nature social responsibility is a quality of living creatures with ability for continuum, longevity and survival.**
- The social responsibility as a part of Nature is present throughout the whole Nature – The Universe as well as on the planet Earth.

The Social Responsibility, Nature and the nature of the planet Earth are parts of the universal, solar, global and local life of all Nature and Nature under observation.

The Social responsibility as a part of Nature - The Corporate Social Responsibility, The Individual Social Responsibility as the social responsibility of humans should have a place at school learning curricula and learning of the mother preparations for motherhood, for delivering baby, and for all universal upbringing, learning and education of humans and for the whole life learning to be responsible.

7. Spiritual Life

Body and mind are inseparable major two subsystems of individual humans and are established by gene code of him or her. Homo sapiens are most sophisticated beings and are on a top of Nature evolution within the biosphere of the planet Earth. The humans are social beings and have two major representations: individual man or woman and social impact with countless forms. If and when we put the known records all together from the past and present social impacts of the species in the biosphere of the planet Earth, we may understand reality of the impact of the species or people.

The global community of humankind at present has 7 billion+ people or individual representatives in the biosphere of the planet Earth. The people's impact within the biosphere is summary of past and present members of Homo sapiens.

Evolution of body and mind begins with birth of Homo sapiens species and let us hope for many years in future.

The body evolution took and is taking shaping of the body system to the present qualities and hopefully it will continue.

The mind evolution is result of many important happenings, experiences, learning, school systems and social events and qualities.



Spiritual life of humans has commenced in some time as was commencement of humankind evolution – 200000+ years ago. Separate tribes of humans were wondering over a land environment and the first leadership structure was – strongest male or female who was the Chief of the tribe.

Evolution took tribal life from Chief to Chief and spiritual leader – shaman. Otherwise the tribal life practiced polytheism connected with the strong events in the Nature. With Chief and Shaman rule tribal life changed from nomadic wondering to first settlements constructed at suitable locations and knowledge of agriculture. Safety, water and fire place was reason for settlements in caves. With evolution of construction abilities, which evolved from abilities of body and mind and resulted with constructed settlements – we are talking about 15000 years ago.

The spiritual life followed social responsibilities, polytheism and living was in harmony with Nature. Even today some tribes are having old fashion traditional life in harmony with local environment.

The next step in evolution was closely connected with development of the wish to control and benefit from larger number of people. As result many different hand killing devices were invented. The spiritual, social and material life was changed from tribal life to great kingdoms within the different region world-wide. China, India, Persia, Babylon, Egypt etc. practiced polytheism worshiping individuals like kings and great people. We are arriving to 500 B.C.

It was time of developing the knowledge: Philosophy, Mathematics, Physics, Natural and Technical Sciences. Polytheism did not meet needs for social and spiritual life. It was time of development of the monotheism, which is even today present. The written history commenced with the first Olympic game in 774 B.C. The golden era of philosophy commenced some 500 years B. C. The slavery was part of the social order: war prisoners survived to be slaves. Of course within different environments there was a countless number of different cases and living habits. It was time without knowledge about the planet Earth geography and with regional distribution of the people. Monotheism was fast developing and prevailed among people of Mediterranean region. Buddhism was common practice in East and South Asia.

Sciences struggled among forming of the Earth and creation of it.

Finally the present views on religions of the world community of humankind have following statistics:



- **Buddhism** is the oldest nontheistic religion originated from 1500 - 1000 year B. C. It has numerous branches and it is religion like philosophy. It is popular in Asia with the largest number of believers are in China, India, Japan and South-Eastern Asian countries. Up to 600 hundred million people are practicing Buddhism philosophy.
- **Christianity** – today there are many different larger or smaller groups of people like: Roman Catholicism strongest in Western countries; Eastern Orthodoxy strongest with people of Eastern Europe; Protestantism has numerous braches and in many countries has a prevailing influence in USA 61% , Australia 40%, New Zeeland 50%, South Korea 27% of the country population etc. In general today over 1 billion believers are members of the Christianity.
- **Islam** is one of three great religions of the global community of humankind founded by Muhammad (570 – 632 A.D.). Islam is a monotheistic religion and is very popular among the people. It has two major branches Sunni 7-8 members of 10 and Shia 1-2 of 10. In total believers or followers of the Islam have over 1.6 billion of the global community of humankind

There are numerous branches of monotheistic groups of followers who follow one bright person “philosopher”¹³. They could be followers of the three great religions of the world Christianity, Buddhism or Islam or any “saint idea” produced by “a holly person”. Those are countless possibilities but as a rule they have one person as “the holly person”.

The global community of humankind’s great three religions and countless branches are a priceless heritage of humanity and source for countless opportunities to rule the people.

This is the present reality of the third millennium of humankind. Regardless of the knowledge, experience, history, written scripts and running of the day by day operations, religions are taking care of the spiritual life of humankind.

It would be nice to see religious holly persons taking responsibilities for the work in past and present with no respect to life of humans or Nature because it has not been in line with their wishes. Countless losses of life and property of people in religious wars and local community happenings worldwide are making new view on the religions. A major threat for people is control of knowledge

¹³ Whether he is philosophers or not – followers are blind and follow their leader.



which recognize only the knowledge suitable for religious purposes and regardless the scientific truth.

The strongest case in the world is relationship of the people of USA to humankind's and other Nature evolution, which is not in practical use, because of the creation philosophy. Charles Darwin, a XIX century scientist was the first human to understand evolution as the major force of the Nature.

No less important is the case of racism differentiating people as races. It has nothing to do with Nature because races do not exist. It is all invented to rule the people. Even today in 2015 most form of governmental and civil society institutions about personal records are including question "Race".

We hope that religions of the global community will accept universal upbringing, whole life learning and education as a path for sustainable future of humankind and will take care of spiritual life without differentiation and individual wishes in order to promote social responsibility as socio-economic order that is a precondition for the current humankind to survive.

All in one and one in all it is what the humanity is facing now.

8. Conclusions

The evolution of the body and the mind of the present representatives of Homo sapiens toward more social responsibility are needed for better tomorrow and longevity of humans within the biosphere of the planet Earth.

The universal upbringing, whole life learning and education are great possibility for global community of humankind to open new frontiers for continuum and longevity, but not without general practicing the social responsibility by individuals and their organizations (from families to the United Nations).

The mothers' universal education on upbringing of new born babies is needed for humans to have possibilities for introduction of individual social responsibility as a crucial tool for future existence of humans within the biosphere of the planet Earth.

The knowledge on Nature system, requisitely holistic celestial bodies, and systems of celestial bodies as: galaxies, stars, planets and other smaller systems of energy, matter and information is calling for understanding and



becoming a part of universal upbringing, whole life learning and education of our children.

The knowledge on Nature operations is needed for understanding of the present and future life.

The present social order of global community of humankind as a whole needs reorganization toward social responsibility as the socio-economic order. Humans need to consider bad results of the last two hundred year of living and needs for new understanding needed for continuum and longevity of our descendants.

Many good experiences are doing well for humanity: but also the many bad ones need to be forgotten and replaced with better ones. For instance the bad ones including following: financial system; use of time; present knowledge and technical facilities; lack of reason, justice, social responsibility, sustainability, morality and wisdom; the present transport system, which is the most polluting innovation of humans at present; the present education which does not allow for understanding of truth on Nature and many more paradigm; etc.

One planet is the given reality and one socially responsible government is needed for continuum and longevity of the global community of humankind.

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