Sustainable development features of the socioecological economic system

Evgeniy Bikmetov^{1*}, Arkadiy Lukyanov¹, Marina Pushkareva¹, Zarina Sizonenko¹, and Ksenia Khramova²

Abstract. The article substantiates that the idea of broad development is a synthesis of an alternative and metaphysical approach to the consideration of a socio-ecological economic system. The purpose of the work is to analyze the features of the sustainable development of the socio-ecological economic system. The novelty of the presented approach lies in the understanding of the dialectics of sustainable development as a metaphysics of the present and future. This approach is of heuristic importance for the development of environmental concepts. Sustainable development is associated with the reproduction of the essential forces of man under the dominance of utilitarianism in socio-economic relations. Dialectics as a program of sustainable development is related to self-determining knowledge. The application of this methodology presupposes the development of people's ecological self-consciousness. changes and transform them into promising humane actions. The desire to harmonize technological, socio-economic and spiritual processes ensures the sustainability of the development of the socio-ecological economic system. Responsibility for thinking and acting must be seen as a moral principle in initiating and planning various types of projects, many of which are related to ecological issues. The social strategy of the state and business must be built on the basis of socially responsible behavior and thinking. This contributes to the creation of an atmosphere of public trust, common values, increases the level of manageability and regulation of the social and socioecological economic system, and ensures the sustainability of the development of the structural elements of the system at all levels. Decisions made should be socially and environmentally oriented, i.e. including healthsaving technologies that ensure the quality of life of future generations, the harmonious existence of society and the ecosystem.

1 Introduction

The study of the features of the sustainable development of the socio-ecological economic system is directly related to globalization and the symptoms of instability associated with it. They are manifested in environmental pollution, domestic pollution, biodiversity reduction,

© The Authors, published by EDP Sciences. This is an open access article distributed under the terms of the Creative Commons Attribution License 4.0 (https://creativecommons.org/licenses/by/4.0/).

¹Ufa University of Science and Technology, 450076 Ufa, Russia

² Ufa Bashkir State Medical University, 450008 Ufa, Russia

^{*} Corresponding author: bicprof@mail.ru

environmental degradation, depletion of natural resources, food shortages, deterioration of the physical and spiritual health of people. In order to meet unreasonably increased human needs in modern economic conditions, manufacturers are developing more and more goods and services, expanding an unreasonable range, and motivated by increasing demand. And this leads to satiety with material goods and lack of satisfaction from spiritual values, which harms human health and nature. Nature through the feedback chain causes damage to man. The relevance of the analysis of the features of sustainable development, which is directly related to the socio-ecological economic system, is associated with the study of the self-consciousness of man and society. The authors of the article are interested in knowledge as an understanding of the consequences of decisions made in a modern dynamic and stochastic society.

Dialectics is included in the metaphysical process as the «core» of the cultural-historical process associated with the knowledge of nature and society. The concept of sustainable development should not focus only on metaphysics. Otherwise, the future begins to manifest itself as more real than the present. Sustainable development is based on the unrealized opportunities of the past. Dialectics emphasizes the knowledge of the present, the laws of development of nature and society. It becomes the "core" of metaphysics, which answers the question of the direction of development. But dialectics is connected with questions about the source and mechanisms of the development of the past. In this regard, dialectics can be represented as an essential part of metaphysics.

The idea of sustainable development implies a rejection of the simply objectifying position that the modern observer takes in the modern world. An alternative observational position arises only when the subject considers himself in terms of the opposite of the world as a whole or as one of the entities in it. [1]. Project activities based on understanding the relationship between dialectics and metaphysics make it possible to:

- correlate goal setting with the available opportunities,
- identify priority actions to ensure the sustainable development of the socio-ecological economic system,
- direct them towards achieving the main goal.

Social design focused on social justice creates the prerequisites for sustainable social development. All types of social activity interpenetrate each other and create a single process of formation of society and its subsystems. The way out of the crisis and the successful development of the socio-ecological system is possible on the way to transforming the system of values, developing ecological self-consciousness and developing appropriate forms of environmentally justified behavior.

2 Literature review and methods

The idea of sustainable development is associated with the transcendental method, which is aimed at the knowledge of self-consciousness. Transcendental knowledge comes from experience, but is not limited to it. The transcendental program is related to the depth of experience of the researcher of the socio-ecological economic system. Many modern researchers have pondered over the problem and aspects of the relationship between dialectics and metaphysics [2-9]. Considering the dependence of a person's creative productivity on his transcendental and absolute ability to cognize the world, the researchers brought the ability of cognition beyond the limits of overcoming the isolation of one's own «Self», in which many «Selves» interact [10]. Arguments are proposed in favor of the fact that metaphysics makes its permanent contribution to the life of human culture [11]. Several researchers of the twentieth century criticized the non-Marxist concepts of dialectics [12-14]. Non-dialectical phenomena under capitalism are excluded from normal social, economic and

intellectual activity, which is carried out in a metaphysical, intellectually isolated environment [15].

Dialectics as the metaphysics of the future is made dependent on spiritual and cognitive activity. Dialectics as knowledge often appears in the form of implicit and latent knowledge. But the metaphysical perspective of knowledge is incompatible with the absence of a sociocultural context of knowledge. Dialectics is based on the idea of the relationship between the individual subject and the external world, is associated with the metaphysical relationship between intersubjective connections and nature, with the analysis of social forms that are not in the space of social interactions [16]. Dialectics is productive when ideas are oriented towards social responsibility [17].

The dialectical approach is implemented in certain principles, including systemic ones:

- consider a variety of connections, forms of interaction of elements, their multivariance:
- proceed from the idea of integrity, which implies the delimitation of any phenomenon, its relative separation from the environment.

The concept of sustainable development as a methodology for the responsible management of the socio-ecological economic system is the subject of research [18, 19]. J. Elkington substantiated possible ways of developing business strategies that can be beneficial to corporations, consumers and the environment at the same time, outlined the foundations for 3P sustainability (People, Planet, Profit). H. Jonas proceeds from the ethical position that the personal and collective responsibility of the subjects of market relations in the field of the use of natural resources, which contributes to the harmonious development of technical, technological and socio-economic processes, should be based on the idea of humanity's duty to the future. Making responsible decisions needs to be based on sustainable development that meets the needs of the current generation without jeopardizing the needs of the next generation, in which the use of natural resources, the direction of investments, the orientation towards technological progress and institutional changes correspond to the balance of the needs of the future and the present.

Virtue ethics in business, which considers the environmental aspect, studies are devoted to [20-24]. The study of one of the authors of the article was devoted to substantiating the influence of strategic thinking on sustainable development [25]. The topic of sustainable development of the socio-ecological system is reflected in a large number of interdisciplinary publications on environmental issues. The authors of publications draw research attention to the forms of interaction between society and the environment. An interdisciplinary approach to the study of the habitat is demonstrated in publications [26, 27]. The relationship between socio-spiritual development and environmental sustainability was studied [28].

3 Results and discussion

Sustainable development is not an invariable state of harmony, but such a process of changes in the socio-ecological economic system, where the scale of resource exploitation, orientation towards technical development are consistent with the current and future needs of people. The abilities of future generations must not be jeopardized. Social orientation should be a priority of state and corporate policy. The idea of sustainable development does not contradict the concept of dialectical development. An important result of this study is the understanding of dialectics as an essential «core» of metaphysics. Dialectics as knowledge often acts as latent knowledge. But the metaphysical perspective of knowing the features of the sustainable development of the socio-ecological system is incompatible with the absence of a socio-cultural layer of knowledge. In this regard, the result of the study of environmental sustainability is the development of the mind. Metaphysics is necessary in order to know the social whole. In this whole, each part is a whole. The whole is always connected with a living

unity, and the living does not consist of parts. Artificial reality, on the other hand, is associated with the violation of integrity. Metaphysics also includes dialectical knowledge of sustainable development.

The dialectic of sustainable development harmonizes the individual experience of the subject and the outside world. It relates to metaphysical relations between subjective connections and nature. Relations between people are realized between different "worlds", in which the determinants of social and environmental activity come to the fore. Sustainable development should not be interpreted as something that is directed exclusively towards the future. This may interfere with the preservation of existing forms of links. Dialectics as metaphysics is connected with the analysis of social and forms of interaction, it assumes responsibility in decision making.

The ethics of responsibility is directly related to the freedom of man, society. It includes responsibility not only for actions, but also for the way of thinking, the consequences of decisions and actions taken by the social subject. This responsibility is correlated with the essence of morality, which is directly related to universal human values, the interests of community development. The ethics of responsibility contributes to the formation of value consciousness, includes, according to the ancient tradition, two types of virtues: intellectual (knowledge has a value nature) and ethical, expressed in moral behavior. Aristotle [29] expounds the idea that everything that a person has by nature, he first receives as a possibility, and then realizes it in reality. In the aretological concept of responsibility he created, the problem of the responsibility of the subject's actions depending on the virtues is solved, unless they were committed against the will of the person himself. A person acquires virtues in difficult work on himself. Virtue requires the habit of its implementation. Moral behavior is realized between «universal» and «individual». In his behavior, guided by universal human moral requirements as an ideally due, a person independently makes a choice of a form of behavior, outlines a goal and ways to achieve it, based on a specific situation. This is the source of human responsibility for their moral choice and their activities. In many ways, the concept of moral responsibility is a kind of bridge between the macro and micro levels of decision making.

Indeed, today there is a growing need for social, environmentally responsible behavior of business and non-profit organizations to improve the quality of life of people, i.e. growth of their life and professional potential. As an indicator of sustainable development, it is proposed to consider the quality of life of people whose perspective interests are affected by certain projects (local community, personnel of organizations implementing projects). This efficiency can be viewed as the degree of satisfaction with the interaction of its participants. The efficiency criterion is expressed in the organization's ability to maintain a balance of interests. Value orientations of its stakeholders. Social efficiency is the ratio of the resulting increase in the result to the increase in costs to achieve this result. In the implementation of the proposed approach in practice, it is advisable to combine the objective and subjective approaches to assessing the quality of life, more actively using the subjective approach, which should become more widespread. The object of analysis in this approach is the system of needs of the individual and the degree of their satisfaction (mental state, the quality of «embedded» in the social infrastructure, health status, capacity, compliance with society's morality and value system).

The person collects information. But this information in itself does not lead to a successful solution of emerging social problems, because over time, the way of thinking, the value orientations of the carrier itself change under the influence of environmental factors. The technical mind has turned into a socio-historical project appropriate to the circumstances. Technique affects the activation of utilitarian, material goals in the public mind.

Dialectics does not consider social relations only as a given. Dialectics, like metaphysics, embraces various historical periods, various cultural, space-time forms. Metaphysics as a

search for the foundations of being and cognition is connected with the cognition of the foundation of the present time. It has the goal of revealing the normative basis of the present.

Understanding the dialectics of sustainable development allows us to single out an independent component from the cognitive aspect of the social system. This component is focused on the reproduction of socio-cultural and environmentally valuable knowledge. Dialectics is aimed at a complex understanding of man. But the problems of ecology and demography require consideration and a metaphysical approach.

The dialectic of sustainable development is aimed at the knowledge of historical time. This requires not only an understanding of the change in the pace of historical development, but the establishment of mutual understanding between interested participants. Dialectic expands the boundaries of the present, allowing you to assess possible risks. Dialectics involves understanding the normative component of the forecast. It is incompatible with the pragmatic and technocratic approach to design, which excludes the social and moral consequences of the decisions being made.

Taking into account the considered methodological position, the state policy and business activities should be comprehended in the context of environmental protection. The decisions made must be socially oriented, i.e. including health-saving technologies that ensure the quality of life of future generations. Health-saving technologies are a set of methods, means and forms of organization of social processes aimed at maintaining and improving the health status of the population.

Social, economic, spiritual, ecological development are interconnected with the state of health of the population included in the socio-ecological system. A systematic approach to the analysis of human health allows us to consider this phenomenon in integrity, the unity of subjective (natural, mental) and objective (social) components. Human health is a combination of physical, emotional, spiritual abilities (vitality); a dynamically changing state, characterized by the optimal functioning of the body as a system, allowing a person to live in harmony with himself and the world around him. Health acts as an integrated indicator of physical, mental and spiritual (intellectual) well-being. It is necessary to pay attention to strengthening not only the physical, but also the socio-spiritual health of a person, who is included in the invariant, universal set of universal human terminal values. Socio-spiritual health is characterized by:

- the desire for the individual to observe the principle of the optimum in the main forms of manifestation of life;
- the ability of the individual to effective social adaptation, which allows him to carry out his life in harmony with himself, society and nature;
- creation of a basis for the realization of intellectual and creative potential, human participation in social production.

Decision-making in the field of healthcare involves the development of a set of measures of an organizational, legal, educational, communicative nature [30, 31]. The social strategy in this area presupposes, first of all, an ideological transition - an understanding by administrative and business management of a picture of life that would take into account such variables as demographic indicators, socio-economic status and education, environmental consciousness and self-awareness, spiritual and mental health of a person. If the management and engineering technologies being developed and implemented will require an overexertion of the forces and costs of the intellectual, emotional, physical resources of the individual, then the management of socio-economic, environmental processes will be labor-intensive, over-expensive and will not give a positive effect.

Features of sustainable development are presented in Table 1.

Νo	Characteristic	Development direction
JN⊵		1
1	Striving to avoid ecological catastrophe	Achieving sustainable development on a global scale
2	Not harm to the community	Ensuring favorable living conditions for future generations
3	Minimum decent standard of living	Legislative and law enforcement practice for the implementation of the ideas of social justice in relation to society, taking into account historical development
4	Development of modern technologies	Implementation of environmentally friendly resource and energy saving costs
5	Emotional and value perception of life	Overcoming the egoistic spirit of well-being, pragmatic attitude to economic and social life, bureaucracy and technocracy

Table 1. Features of sustainable development.

4 Conclusion

The rate of self-constituting in the socio-ecological economic system due to natural and artificial processes should exceed the rate of its degradation. Man acts not only as a natural, but also as a connecting spiritual, self-reproducing, intellectual element of the system. The future of man relates to the consideration of economic activity, taken together with the biosphere and noosphere. Sustainable development is associated with an understanding of ecology as the science of the human home, which today is the entire planet. Such a position is incompatible with social egoism, which focuses on profit here and now.

Metaphysics is aimed at the ideal, increasing the degree of activity of the future life. Caring for a distant person is the core of dialectical thinking, which penetrates the essence of sustainable development. In the metaphysical knowledge of sustainable development, ignorance is imperfect knowledge. And dialectics considers knowledge as a cognitive development. And dialectics considers knowledge as a cognitive development. In this regard, the growing public intellectual activity requires managers and administrators to create new forms, methods and mechanisms of management, i.e. not only its compliance with the conditions of social production, but also advanced management.

Dialectics is aimed at restoring the way of mental work. But dialectics, taken outside of metaphysics, is not capable of acting as a regulator of the interaction of systems. Dialectics, in contrast to metaphysics, must be considered as its own carrier. This can be achieved if dialectics is in harmony with metaphysics. The heuristic potential of dialectical thinking is enhanced on the basis of knowledge of the development of the socio-ecological system, taking into account the essential forces of man.

One of the conditions for overcoming instability is the dialectic of sustainable development, as well as demonopolization in all spheres of activity. Ways to transition to sustainable development and improve the efficiency of the functioning of the socioecological economic system are:

- increasing investment in health-saving, harmless, waste-free technologies;
- focus on the fundamental humanities in the process of transition to sustainable development;
- development of civil society networks, including non-profit, volunteer movements and organizations;
- activation of humanistic enlightenment and education aimed at the development of common sense in the public and managerial consciousness.

These methods and ways are relevant for modern Russia, which has a high intellectual, spiritual, and resource potential. It is necessary to move away from the concept of raw materials, which has taken root in the Russian managerial mind, as the main factor in the development of the economy. The foundation for the successful development of a socio-

ecological economic system lies in its human, intellectual capital. The intellectual potential contains a complex of cognitive abilities, the realization of which is a condition for the development of the essential forces of the individual, society, their relationship with nature. The main function of the intellectual potential is to maintain the vital activity and self-development of an individual included in various forms and orders of consolidated activity.

The social strategy of the state and business must be built on the basis of socially responsible behavior and thinking, which contributes to the creation of an atmosphere of public trust, common values, increases the level of manageability and adjustability of the societal and socioecological economic system, and ensures the sustainability of the development of the structural elements of the system at all levels.

References

- 1. J. Habermas, Zeitschrift für Philosophische Forschung **41(4)**, 682-685 (1987)
- 2. A. Badiou, Pli **10,** 174-190 (2000)
- 3. R. Bliss, J.T.M. Miller (eds.), The Routledge Handbook of Metametaphysics (London, Routledge, 2020)
- 4. J. Duprè, The Disorder of Things: Metaphysical Foundations of the Disunity of Science (Cambridge, MA, Harvard University Press, 1995)
- 5. J. Habermas, Postmethaphysical Thinking: Philosophical Essays (Cambridge, MA, MIT Press, 1992)
- M. Heidegger, The Onto-Theo-Logical Constitution of Metaphysics. In.: M. Heidegger. Identity and Difference (The University of Chicago Press, 1969)
- 7. G. Leyenberger, Métaphores de la présence. II. La philosophie de Hölderlin, Edition Osiris (1994)
- 8. S. Petrucciani, Dialectics and Metaphysics (Adorno's Philosophy, Society, and Aesthetics, Palgrave Macmillan, Cham, 2021)
- F. Wagner, Der Gedanre der Persönlichreit Gottes bei Fichte und Hegel (Gütersloh, 1971)
- 10. E. Bloch, Tübinger Einleitung in die Philosophie (Suhrkamp Verlag, 1963)
- 11. W. Desmond, J. Grange, Being and Dialectic: Metaphysics as a Cultural Presence (SUNY Press, 2000)
- 12. Th.W. Adorno, Metaphysics: Concept and Problems (John Wiley & Sons, 2015)
- 13. G. Lehmann, Die deutsche Philosophie der Gegenwart (Stuttgart, 1943)
- 14. A.N. Whitenhead, Process and Reality (London, 1969)
- 15. A. Micocci, The Metaphysics of Capitalism (Lexington Books, 2000)
- V.A. Lektorsky, Knowledge and Cultural Objects. In: The Concept of Knowledge, Springer, Dord, 191-196 (1995)
- 17. I. Kuçuradi, R.S. Cohen, The Concept of Knowledge, Springer-Science+Business Media, B.Y. (1995)
- 18. J. Elkington, California Management Review **36(2)**, 90-100 (1994)
- 19. H. Jonas, Das Prinzip Verantwortung: Versuch einer Ethik für die technologische Zivilisation. Neuausgabe mit einem Nachwort von R. Habeck (Berlin, 2020)
- 20. D.G. Arnold, K.E. Goodpaster, G.R. Weaver, Business Ethics Quarterly **25(4)**, v-xv (2015)

- 21. J.C. García-Rosell, J. Moisander, European advances in consumer research **8**, 210-215 (2008)
- 22. W.M. Lim, Marketing Theory **16(2)**, 232-249 (2015)
- 23. B. Van de Ven, Journal of Business Ethics **82(2)**, 339-352 (2008)
- 24. Y. Wang, G. Cheney, J. Roper, Journal of Business Ethics **138(1)**, 67-77 (2016)
- 25. E. Bikmetov, N. Galimullina, I. Ruvenny, Z. Sizonenko, R. Sizonenko, E3S Web of Conferences **208**, 07008 (2020)
- D. Ayllón, V. Grimm, S. Attinger, M. Hauhs, C. Simmer, H. Vereecken, G. Lischeid, Science of The Total Environment 622-623, 954-973 (2018)
- 27. G.A. Bradshaw, M. Bekoff, Trends in Ecology & Evolution **16(8)**, 460-465 (2001)
- 28. E. Opoku, K. Dogah, O. Aluko, Energy Economics 106, 105782 (2022)
- 29. Aristotle. Aristotle's Nicomachean Ethics (trans. R.C. Bartlett, S.D. Collins), UK, University of Chicago Press (2012)
- 30. A.R. Andreasen, Social Marketing Quarterly **8(3)**, 38-41 (2002)
- 31. D.Ch. Walsh, R.E. Rudd, B.A. Moeykens, T.W. Moloney, Health Affairs **12(2)**, 104-119 (1993)