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Iryna Zrybnieva, Doctor of Economic Sciences, Professor

Yuriy Fedkovych Chernivtsi National University

Chernivtsi, Ukraine

Ilona Babukh, Candidate of Economic Sciences,

Associate Professor

Yuriy Fedkovych Chernivtsi National University

Chernivtsi, Ukraine

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SUSTAINABLE DEVELOPMENT AS A PARADIGM OF CIVILIZATIONAL TRANSFORMATION IN THE TWENTY-FIRST CENTURY

In the twenty-first century, the concept of sustainable development has evolved from a predominantly environmental doctrine into a comprehensive philosophy of global societal progress that defines the strategic directions of contemporary civilizational transformation. The intensification of anthropogenic pressure on the environment, the escalation of climate-related risks, the deepening of socio-economic inequalities, and the growing constraints of resource-intensive models of economic growth have underscored the urgent need for a new development paradigm grounded in balance, adaptability, and intergenerational responsibility [2]. Within this context, sustainable development should be understood not merely as a set of environmental or economic strategies, but as an integrated model of interaction between humanity, society, and nature, in which economic progress is inseparable from social well-being and ecological integrity.

Contemporary academic discourse increasingly emphasizes that the traditional model of economic development, primarily focused on quantitative growth in production and consumption, has revealed its structural limitations. Intensive exploitation of natural resources, the dominance of extractive economic systems, and the prioritization of short-term economic interests over long-term ecological considerations have generated systemic crises affecting not only environmental stability but also social and political institutions. Consequently, sustainable

development is increasingly interpreted as an instrument of civilizational modernization aimed at harmonizing economic efficiency, social cohesion, and environmental equilibrium.

The economic dimension of sustainable development is based on a reconsideration of the very nature of economic growth. Within the modern paradigm, the economy can no longer function as an autonomous system detached from social and ecological processes. Instead, it is regarded as a component of a broader eco-social system in which economic activity must ensure not only capital accumulation but also the long-term viability of society and the natural environment. Accordingly, the principal criterion of economic performance is no longer limited to gross domestic product growth but extends to the capacity of the economy to provide a high quality of life without undermining the ecological foundations of future development [1].

In this regard, the preservation of aggregate capital – including natural, productive, human, and social capital – becomes critically important. Particular attention is devoted to the issue of substitutability between different forms of capital, as natural resources and ecosystem services cannot always be compensated through technological advancement or industrial expansion. Modern economic scholarship increasingly recognizes the unique and often irreplaceable nature of natural capital, given that it constitutes the material basis for the functioning of all socio-economic systems.

Within this framework, the concept of the green economy acquires particular significance. It implies structural modernization based on resource efficiency, decarbonization, and the implementation of environmentally sustainable technologies. This transformation involves not merely technical improvements in production processes but a fundamental shift in the logic of economic development itself – namely, the transition from extensive resource exploitation to a circular economic model in which waste is treated as a potential resource for subsequent production cycles. Such an approach creates the preconditions for combining economic competitiveness with environmental security and long-term systemic resilience.

Equally important is the social dimension of sustainable development, which places the individual at the center of societal transformation. Under contemporary conditions, social progress is increasingly determined not solely by material production but by the quality of human capital, the effectiveness of social institutions, and the capacity of states to ensure social justice and cohesion. Therefore, sustainable development

presupposes a reorientation of public policy away from purely economic indicators toward the provision of decent living standards, equitable access to education and healthcare, cultural development, and opportunities for personal self-realization.

A fundamental principle of the social dimension of sustainable development is the concept of justice, both intragenerational and intergenerational. In the first case, it concerns equitable access to resources and social benefits for all social groups regardless of income, social status, or territorial location. In the second, it reflects the moral and political responsibility of present generations toward future generations in preserving the environmental, economic, and cultural conditions necessary for their survival. Sustainable development thus establishes a new ethical framework for social progress in which responsibility becomes as important as efficiency.

In the context of globalization, the preservation of cultural capital and national identity acquires strategic importance. While globalization creates new opportunities for intercultural dialogue and knowledge exchange, it simultaneously intensifies the risks of cultural homogenization and the erosion of local traditions. Consequently, culture should be perceived not as a secondary component of development but as a strategic resource for shaping social values, public trust, and ecological consciousness. Art, in particular, plays a vital role in this process, as it possesses the capacity not only to reflect the social and environmental challenges of modernity but also to shape new worldviews essential for the transition toward sustainable development.

The social dimension of sustainable development also requires the establishment of effective governance systems based on democratic principles, transparency, and civic participation. Contemporary challenges clearly demonstrate that no development model can succeed without active public involvement in decision-making processes. For this reason, participatory governance mechanisms become increasingly important, facilitating the integration of society into strategic planning, environmental management, and public oversight of institutional activities. An active civil society therefore serves not only as an indicator of democratic maturity but also as a crucial determinant of long-term societal resilience.

The environmental dimension of sustainable development is grounded in the recognition that the natural environment is not an external element in relation to the economy and society but rather the fundamental basis of their existence. The contemporary ecological crisis has exposed the limitations of the technocratic approach to human–nature relations, which

for decades was based on the assumption of unlimited domination over natural resources. In contrast, sustainable development promotes a new ecological worldview according to which nature is understood as a complex self-regulating system with clearly defined limits of resilience and self-restoration.

Of particular concern is the preservation of ecosystem stability, as soil degradation, atmospheric pollution, depletion of water resources, and biodiversity loss significantly diminish the adaptive capacity of the biosphere. Contemporary scholarly discourse increasingly associates environmental security not merely with the protection of isolated natural areas but with the comprehensive ecological transformation of all spheres of social life, including industry, transportation, energy systems, urban development, and consumption patterns.

Within this context, the concept of ecological modernization becomes especially relevant. It involves the integration of environmental principles into public administration and economic planning through the implementation of resource-saving technologies, the expansion of renewable energy systems, economic decarbonization, the improvement of environmental monitoring mechanisms, and the establishment of new standards of corporate environmental responsibility. At the same time, environmental policy is becoming increasingly global in character, as contemporary ecological challenges transcend national borders and require coordinated international responses.

Thus, sustainable development is a multidimensional strategy for civilizational resilience based on the synergy of economic, social, and environmental mechanisms, requiring profound transformations in values and social consciousness, and serving as an essential prerequisite for global stability, security, and the long-term survival of human civilization.

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