

**Management mechanisms and
development strategies of
economic entities in conditions
of institutional transformations
of the global environment**

**Collective monograph edited by
M. Bezpartochnyi**

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**Ekonomisko vienību vadības
mehānismi un attīstības
stratēģijas globālās vides
institucionālo pārveidojumu
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The authors of the book have come to the conclusion that it is necessary to effectively use modern management mechanisms and development strategies of economic entities in order to increase the efficiency of their activities. Basic research focuses on financial diagnostics of the enterprise, assessment the quality of services, efficiency of business process management and implementation of innovative projects, monitoring of the labor market, diagnostics of the country's debt security, and research of the country's investment image. The research results have been implemented in the different models of development the commercial awareness, smartization, production of functional food products, use of eco-innovation, development of the e-commerce market, formation a new paradigm of work motivation, crisis management of economic security, modern tools of higher education management. The results of the study can be used in decision-making at the level of international business, ministries and departments that regulate the processes development of economic systems, ensuring stability and efficiency. The results can also be used by students and young scientists in modern concepts of the development of economic entities in the context of institutional transformations of the global environment.

Reviewers (international scientific editorial board):

Maria Krelowska-Kulas – *Doctor hab., Professor, Higher School of Social and Economic, Przeworsk, Poland*

Aivars Stankevičs – *Dr. oec., Researcher, Institute of Humanities and Social Sciences, Daugavpils University, Daugavpils, Latvia*

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INTRODUCTION

Institutional transformations of the global environment are characterized by complex socio-economic processes and management problems. Disruption of production, economic and financial relations with consumers and suppliers, technological backwardness of many industries, unstable financial position of most economic entities provokes a high level of uncertainty and instability of conditions for effective functioning, which creates a real threat to the positions of economic entities in the market. As a result, most economic entities are not able to fully use their resource potential and production capabilities, often reducing their own work to the struggle for survival instead of sustainable functioning.

An analysis the current state of economic entities shows that market conditions have highlighted the challenges of their sustainable development. The problems existing today cannot be solved without the formation of a mechanism and strategies ensuring the sustainable development of economic entities. The mechanism should be based on the sustainability of economic entities, which is ensured through deep transformation processes, raising economic relations to a new stage of development, endowing them with new qualitative content and making them more viable and effective. As a result, there is a need to implement modern strategies for the development of economic entities, taking into account the institutional transformations of the global environment.

The purpose of writing this collective monograph is to substantiate the theoretical-methodological foundations and develop of organizational-economic mechanisms for the development of economic entities in the context of institutional transformations of the global environment.

The object of the author's research is the economic, organizational, social, production, resource, political, regulatory and spatial transformations of the global environment, features and development trends of economic entities, the synthesis of international experience in the field of sustainable development of economic entities in various areas of the national economy and international economic relations.

The subject of the research was various processes development management of economic entities; rationale for the formation of organizational-economic mechanisms to ensure the sustainable development of economic entities; formation of development strategies for economic entities in the context of institutional transformations of the global environment; socio-economic processes; formation of mechanisms for regional decentralization; modernization of educational management and implementation of international law.

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Polishchuk Volodymyr

PhD of Technical Science, Associate Professor, Department of Software Systems

Liakh Ihor

PhD of Technical Science, Associate Professor, Department of Information Science and Physics and Mathematics Disciplines

Uzhhorod National University (Uzhhorod, Ukraine)

ENHANCING THE SAFETY OF ASSESSMENT OF EXPERT KNOWLEDGE IN FUZZY CONDITIONS GLOBAL ENVIRONMENT

Recently, the importance of tasks has considerably increased, when it comes to making compromise solutions in the process of studying complex social objects. This is due to an increase in the dynamism of the environment and the development of science and technology, which led to the emergence of a large number of alternative choices. Under these conditions, expert procedures are used to make decisions more frequently. Expert methods are an effective tool for analyzing social objects, forecasts making, and for defining their quality and value. The use of expert methods is relevant for the assessment of many processes.

Thus, the urgent task of information modeling is to increase the safety of expert knowledge evaluation. The technology, on the basis of expert assessment of some indicators of the object under study, displays the aggregated assessment and its linguistic interpretation of the level of expert knowledge security for making further decisions.

Let us formulate the task of evaluating the object under study as follows [1]. Let there be a set of objects $X = \{X_1, X_2, \dots, X_n\}$ that needs

to be evaluated by many indicators (criteria) and ordered by a certain rule. For a specific application, a general set of criteria for expert evaluation needs to be grouped according to the criteria $G = \{G_1, G_2, \dots, G_m\}$. Each group of criteria has a different number, which we will denote as follows: $K_i = \{K_{i1}, K_{i2}, \dots, K_{in_i}\}$, $i = \overline{1, m}$. Each criterion is a question to answer on which one is to choose the answer variant Z_{ijk} , $i = \overline{1, m}$, $j = \overline{1, n_i}$, $k = \overline{1, 4}$ (value i is a group number of criteria j – criterion number in the group i , k – number of answer to question), that is close to the truth. For each criterion, an expert chooses one of the answer options to which the corresponding score b_{ijk} . The given rating scale for answers to questions is heuristic and characterizes the level of the object being evaluated [2-3]. Thus, a criteria set can be presented in the form of a questionnaire of expert evaluation, Table 4.6.

Table 4.6

Expert evaluation questionnaire for the group G_1

Group of criteria	Criteria name (question)	Answer to the question	Score in points	Answer expert	
G_1	K_{11}	Z_{111}	b_{111}	g_{11}	
		Z_{112}	b_{112}		
		Z_{113}	b_{113}		
		Z_{114}	b_{114}		
	K_{12}	Z_{121}	b_{121}	g_{12}	
		Z_{122}	b_{122}		
		Z_{123}	b_{123}		
		Z_{124}	b_{124}		
				
	K_{1n1}	Z_{1n21}	b_{1n11}	g_{1n1}	
		Z_{1n22}	b_{1n12}		
		Z_{1n23}	b_{1n13}		
Z_{1n24}		b_{1n14}			