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THEORETICAL FOUNDATIONS OF THE FORMATION OF THE ECONOMIC SECURITY IN THE INDUSTRIAL SECTOR BASED ON THE PROCESS APPROACH

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Modern trends in the functioning of the industrial sector are characterized by increased turbulence of the external and internal environment, as well as by military and political risks, which intensify the requirements for the economic security of the sector and highlight the need to search for new approaches to its effective formation. The purpose of the article is to provide theoretical and methodological justification for the application of process approach to forming the economic security of the industrial sector and to develop a process architecture of economic security at the enterprise, industry and State levels. The study uses the methods of analysis and synthesis to review scientific literature on the selected issue and the methods of comparison and generalization to investigate economic security concepts. This process includes examining approaches, identifying objects of management, classifying processes and developing an architecture of economic security processes. The scientific novelty of the obtained results lies in the integration of the micro-, meso- and macro-levels into a unified process architecture of economic security in the industrial sector with a clear division of processes. The practical value of the study consists in the possibility of using the proposed process architecture as a roadmap for deploying a process-based model of economic security in the industry, configuring monitoring systems, assessing maturity and planning improvements. The article is concerned with the theoretical aspects of forming economic security at all hierarchical levels. Various approaches to defining the concept of “economic security” of an enterprise have been described. Special attention is given to the application of the process approach to defining the essence of “economic security” at enterprise, industry and State levels. The paper presents a conceptual and hierarchical scheme of the logic behind defining the term “economic security” and describes the goals, objects, subject and tasks of economic security from the standpoint of the process approach. The business processes of industrial enterprises have been identified and categorized into the main, auxiliary and management processes within a hierarchical system.

Keywords: economic security, process approach, business processes, industrial enterprise, industrial sector, process architecture.

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Introduction and formulation of the problem

Under current economic conditions, the national economy operates in an environment of uncertainty and constant changes in both external and internal factors. The full-scale invasion launched by Russia against Ukraine has created significant challenges that

negatively affected the economic security of the industrial sector as a fundamental component of the functioning of national economy. Contemporary trends in the development of the industrial sector demonstrate an increasing dependence on global production chains, resource constraints, technological transformations, as

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well as military and political risks. At the present stage of development, industrial enterprises are undergoing significant restructuring as an objective response to the effects of martial law, the digitalization of production processes and the intensification of reindustrialization and “green” modernization processes. These factors demand that state leaders should apply new approaches to risk management, resource utilization and ensuring the sustainability of enterprise operations. Under these conditions, the application of the process approach to forming the economic security of the industrial sector becomes particularly relevant.

The process approach is an effective tool for ensuring the sustainability and efficiency of industrial enterprises, because the functioning of the relevant sector requires the construction of an integrated system of business processes that are adaptable to environmental challenges by coordinating the actions of process participants and maintaining a balance between efficiency, stability and development of the national industrial sector.

Analysis and research of publications

The theoretical aspects of forming economic security of the enterprise based on the process approach have been examined in the works of scientists such as Melikhova T. [1], Valikov V., Makedon V. [2] and Zubko T. [3]. The issues related to the structure of economic security and its components have been explored in the research of Andryushchenko K., Buryachenko A., Lezina A., Lavruk O., Korzhenivska N., Slavina N. [9], Vlasenko V. [10] and many others.

The sectoral aspect of economic security has been addressed by the authors such as O. Denysov [6], Kucher A. and Mazurenko V. [7]. The application of the process approach to forming the economic security of the industrial enterprises has been studied in the works of Cherep O., Oleinikova L., Bekhter L., Dubynina S., Lyschenko O. [4], Dykan V. and Bozhko K. [5], Ianioglo, A., Polajeva, T. [11], Karanina, E., Maksimova, N. [12].

Despite numerous scholarly publications that contain substantial exploratory studies for defining the essence, describing the structure and forming the economic security, the issues of forming the economic security of the industrial sector remain insufficiently studied and substantiated, especially regarding the use of a process approach as a methodology for its formation. This necessitates the need for further scientific research in this direction.

Purpose of the article

The purpose of the article is to provide theoretical and methodological justification for the use of the process approach to forming the economic security of

the industrial sector and to develop a process architecture of economic security at the enterprise, industry and State levels.

Presentation of the main material

An analysis of scientific literature indicates the existence of numerous approaches to defining the essence of the term “economic security”. In the works devoted to this issue, the authors most frequently distinguish situational (static), systemic, process-based and combined (integrated) approaches. A number of studies also mention resource-based, protective, sustainable (resilience-based), competitive, harmonization and evolutionary approaches, which should be considered as a derivative or more specified forms of the main methodological approaches.

Thus, the situational approach defines economic security as the state or conditions of protection of an entity from threats during its interaction with the external environment. The systemic approach treats economic security as an integrated system of interrelated elements or as a system of protective measures that ensure continuous functioning and resilience of the managed entity against various types of threats. The combined approach represents a combination of several classification features, with its extended form referred to as the comprehensive approach, which defines economic security as an all-encompassing category that includes multidimensional aspects of resilience, resource provision and security.

We are of the opinion that the process approach to forming economic security stands out among others by viewing economic security as a system of processes and it offers a theoretical and methodological basis for the formation, management and maintenance of security at all hierarchical levels, from individual enterprises to national economies. The widespread use of the process approach in research works devoted to various aspects of economic security confirms its effectiveness.

Most often, the process approach in the field of economic security is applied at the enterprise level. According to the interpretation of T. Melikhova, the process approach defines economic security as a managed process within the general business processes of the enterprise [1]. V. P. Valikov and V. V. Makedon emphasize that “economic security is a consequence and result of properly structured and well-functioning business processes” [2, p. 13]. A flowchart of maintaining a stable level of economic security at an enterprise [3], such as one presented by T. Zubko, confirms that economic security is a system of interrelated actions.

The economic security of an industrial enterprise has been examined in the works of O. Cherep,

L. Oleinikova, L. Bekhter, S. Dubynina and O. Lyshchenko [4]. The authors apply the principles of the process approach describing the construction of a functional economic security system of the enterprise through business process reengineering. The study substantiates the feasibility of reengineering for the development of the process system of an industrial enterprise, thereby confirming the effectiveness of the process approach for transforming its overall process architecture.

The authors V. Dykan and K. Bozhko have used a process-oriented approach to define the essence of economic security. In their research, the economic security of an industrial enterprise is described as "a continuous process of adapting to a changing internal state and external environment for an industrial enterprise" [5].

Thus, the economic security of an industrial enterprise constitutes a dynamic system focused on managing processes to ensure the resilience of a managed entity, efficient use of resources and prevention of threats in real time.

Industrial enterprises collectively form the industrial sector of the country, which represents a separate level of economic security. The sectoral aspect of economic security has been addressed by O. Denysov, who defines it as "a multicomponent category, with its integral level formed as a complex of interrelated components (like include finance, engineering and manufacturing, innovation, information, energy, personnel, investment, market, export and import) along with their corresponding indicators" [6].

A. Kucher and V. Mazurenko describe the industrial security as "a state of the industrial sector that ensures resilience to threats, balanced growth and the competitiveness of enterprises" [7].

Since industrial security is implemented through production processes, management and development processes of industrial enterprises, as well as through processes that ensure production capacities, the latter should be consider as a process mechanism. Such a scientific interpretation allows us to assert the feasibility of using a process approach and to consider a sector-specific industrial security as a unified economic system of processes that ensures the resilience of production chains, efficient use of resources, innovativeness and the adaptability of the sector to changes in the external environment.

It is appropriate to study the economic security of an industrial sector in the context of ensuring the economic security of the State, as one of its key components.

In the methodological guidelines for calculating the level of economic security of Ukraine industrial security is listed first among the components of economic security within the national security system of Ukraine. It is defined as "the state of the country's production sphere ensuring the most efficient use of available production capabilities, their modernization and expanded reproduction, an increase in the level of production innovativeness and the growth of competitiveness of the national economy" [8].

From the standpoint of the process approach, industrial economic security of the State is a comprehensive system of interconnected business processes for management, development, support and continuous improvement of the national network of industrial enterprises. These activities include ensuring the resilience of production chains, synchronizing resource and information flows among sectors and regions, timely identifying and neutralizing threats, as well as boosting of innovative development and competitiveness of the economy at all hierarchical levels.

The conducted research allowed us to systematize the approaches to defining the concept of "economic security" for industrial enterprises across all their hierarchical levels and to propose our own definitions of the corresponding concept, taking into account the levels of functioning (Fig. 1).

Thus, the presented definitions allow us to assert that economic security at any level is a system of interrelated business processes that work together to ensure resilience and sustainable functioning of an enterprise, an industrial sector and the State.

The application of process logic in forming the economic security of the sector requires defining the purpose, objectives and process elements (management objects) of economic security, as well as identifying the business processes of the corresponding system at every level. This includes specifying participants and key performance indicators for each process to ensure both quantitative and qualitative implementation of protection of the sector's activities and interests against internal and external threats.

The purpose of forming economic security at all hierarchical levels is to create a stable and functional process system to ensure current efficiency and guarantee long-term resilience by improving process efficiency for detecting, minimizing and timely preventing internal and external risks and threats.

The subjects of economic security are the individuals and units responsible for the development and functioning of the economic security system at the enterprise and industry levels, as well as state authorities that create the conditions for ensuring economic security at the national level.

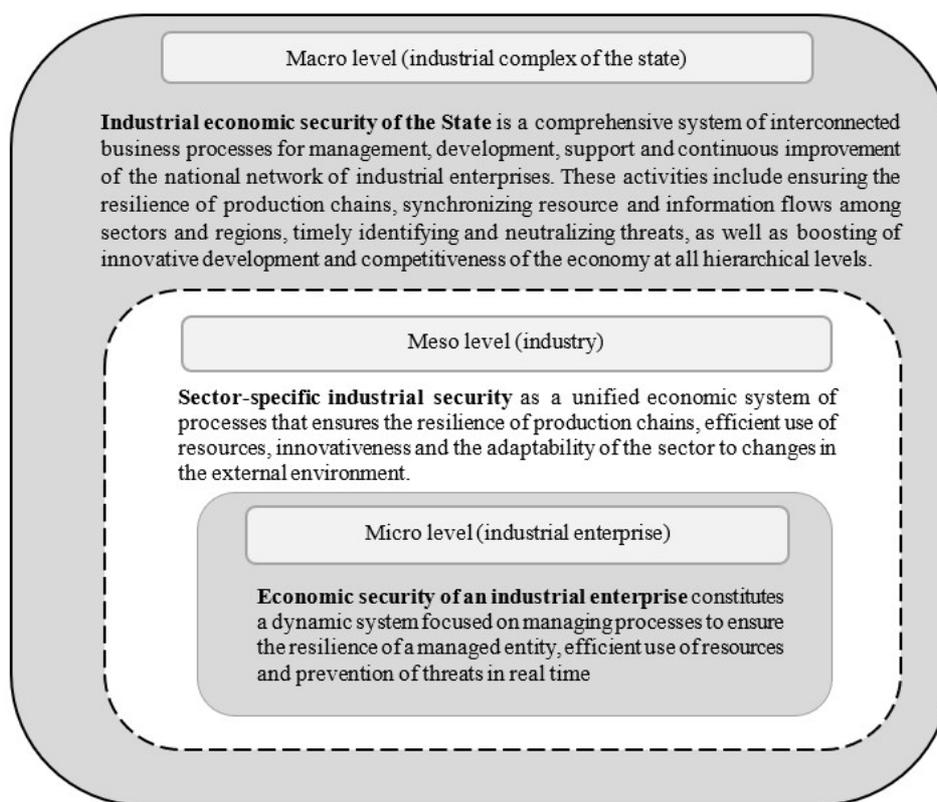


Fig. 1. Conceptual and hierarchical scheme of the logic for defining the concept of “economic security”

Source: based on the process approach

The object of forming and managing economic security of the industrial sector is to ensure a long-term stability of its economic condition, particularly in light of current trends in the development of the national economy.

However, the main objects of management within the system of economic security processes include financial, informational, technical (technical and technological), human (personnel) resources, property assets, legal support of activities and others [9; 10].

According to the defined management objects, the tasks of economic security are defined for each area of a business and, taken together, these tasks reflect the integrity of the process-based security system of the enterprise.

Thus, the tasks of forming economic security based on the principles of process approach include the following items:

- creating value streams to ensure financial stability, operational performance and higher efficiency in the use of resources;

- constructing an effective, integrated and competitive process architecture that ensures consistency of functions, roles and responsibilities within the economic security management system;

- ensuring a high level of competitiveness, technological effectiveness and innovativeness of input resources, production processes and final outputs;

- developing the competencies, qualifications and intellectual potential of personnel as the main participants in the process system;

- forming a legal support process for all activities, including contractual, intellectual property, innovation-related and foreign economic activities;

- creating a protection system for trade secrets, employees, information base and intangible assets through the effective process interaction and development of a unified information and analytical infrastructure;

- implementing effective tools for assessing and controlling the level of security of processes, personnel, assets, capital and commercial interests;

- integrating risk management processes into every level of process architecture to ensure proactive response to internal and external threats;
- ensuring continuous monitoring, measurement and improvement of security processes based on feedback, performance evaluation and process maturity assessment;
- forming a culture of process thinking and responsibility for security among all participants in organizational processes;
- ensuring the alignment of economic security processes with the strategic goals of enterprise, industry and State, while also integrating them with quality management, risk management and sustainable development systems.

The formation of economic security of the industrial sector, viewed through a process approach, requires identifying its main, auxiliary and management processes, which are specific to the industry functioning and to the structure of the objects of economic security management. These processes encompass all aspects of creating, maintaining and developing economic security, including managing assets like financial, human, technical and technological, informational and legal resources, as well as implementing strategic monitoring processes and continuous improvement of the security system. The system of identified processes is presented in Fig. 2.

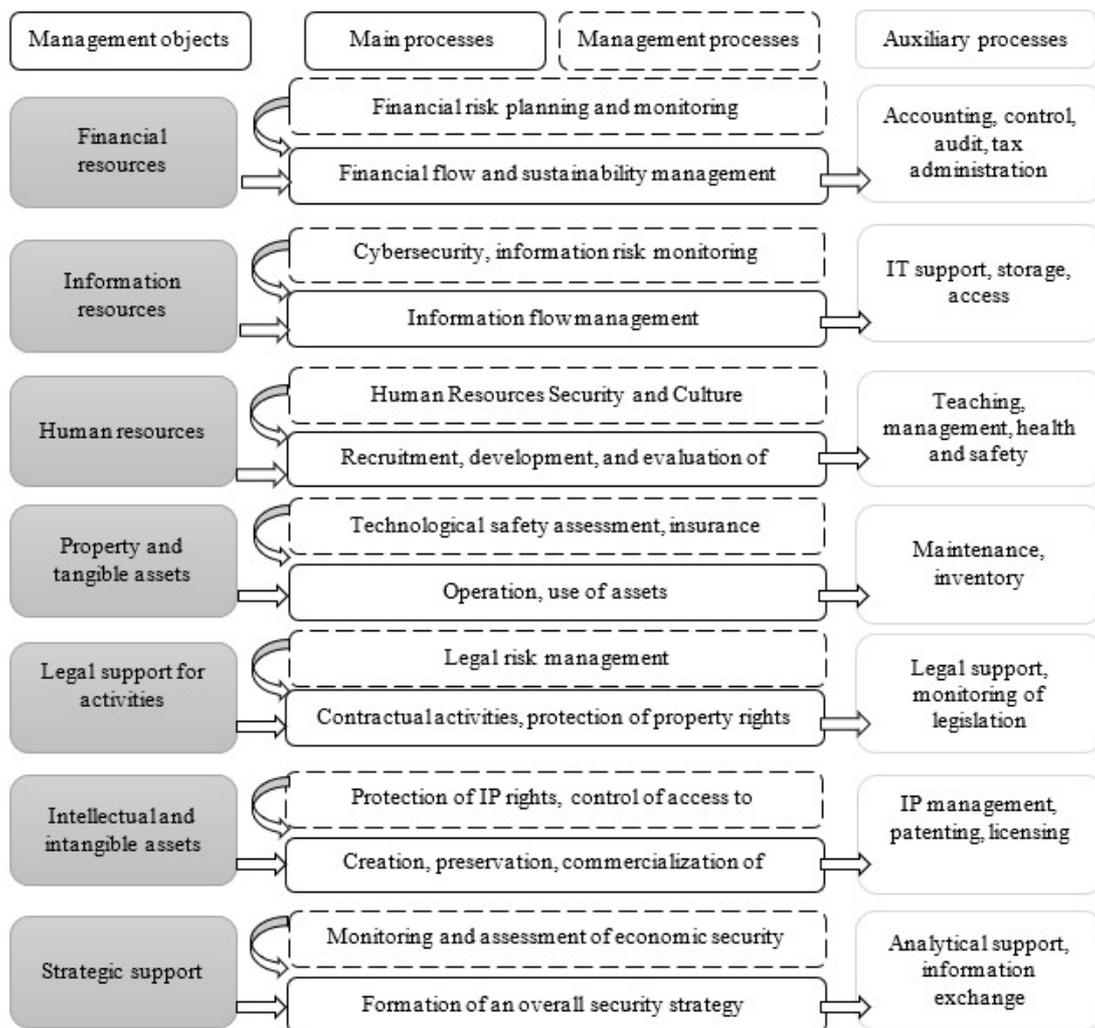


Fig. 2. Architecture of business processes of economic security in the industrial sector

Thus, the author has identified and systematized the main, auxiliary and management processes business processes of economic security in the industrial sector, which collectively form an integrated process architecture of the sector-specific security system. The proposed architecture provides a number of advantages for the formation of economic security of the industrial sector, namely: ensures the interconnection between all levels of management, including enterprises, sectoral structures and state institutions; promotes optimizing resource and information flows between key processes; creates a mechanism for proactive response to external and internal threats; and forms an integrated risk management system aimed at achieving strategic goals of sustainable development and enhancing the competitiveness of the industrial sector.

The generalized process model makes it possible to consider economic security as a dynamic system of interrelated processes, where its effectiveness is determined by the level of process maturity, adaptability, innovativeness and continuous improvement.

Conclusions

The research conducted in this study has allowed us to generalize theoretical approaches to defining the essence of economic security and to substantiate the process approach as a modern conceptual basis for its formation. It is important to emphasize that, unlike situational, systemic or resource-based approaches, the process approach defines economic security as a dynamic system of interrelated processes, where their effectiveness ensures stability for economic entities at various levels.

At the enterprise level, economic security is formed through the management of business processes focuses on efficient use of resources, maintenance of financial stability and asset preservation. At the industry level, economic security is achieved through the processes of coordination, standardization and risk management, and also requires innovative development and integration of production chains into a unified process system.

At the state level, the economic security of industry is an element of national security that is ensured through effective management policy, legal and regulatory support, institutional support and strategic planning of activities of the industrial complex.

In this study, business processes were identified, which made it possible to form a comprehensive process architecture for the economic security of the industrial sector. The practical implementation of process architecture in the conditions of the economic security of industrial enterprises allows for integrated risk management and increased adaptability of the industrial

system to external challenges; aligning security objectives with the strategic development goals of the industry; creating a process-oriented mechanism for monitoring and improving economic security; and enhancing the effectiveness of resource, information, personnel and technology management.

Thus, forming the economic security of the industrial sector based on the process approach is an effective tool ensuring its sustainability, competitiveness and innovativeness within the industrial sector as a key component of national economic development.

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ТЕОРЕТИЧНІ ОСНОВИ ФОРМУВАННЯ ЕКОНОМІЧНОЇ БЕЗПЕКИ ПРОМИСЛОВОЇ ГАЛУЗІ НА ЗАСАДАХ ПРОЦЕСНОГО ПІДХОДУ

Мірошніченко М. В.

Сучасні тенденції функціонування промислової галузі характеризуються підвищеною турбулентністю зовнішнього і внутрішнього середовища та воєнно-політичними ризиками, які посилюють вимоги до економічної безпеки галузі та актуалізують питання щодо пошуку нових підходів до ефективного її формування. Мета статті полягає у теоретико-методологічному обґрунтуванні використання процесного підходу до формування економічної безпеки промислової галузі та побудови процесної архітектури економічної безпеки на рівні підприємства, галузі та держави. У дослідженні використані метод аналізу і синтезу для вивчення наукових джерел з обраної проблематики, метод порівняння та узагальнення для дослідження підходів, ідентифікації об'єктів управління, класифікації процесів та формування архітектури процесів економічної безпеки. Наукова новизна отриманих результатів полягає у поєднанні мікрорівня, мезорівня та макrorівня в єдиній процесній архітектурі економічної безпеки промисловості з чітким поділом процесів. Практична цінність полягає у можливості застосування процесної архітектури як дорожньої карти для розгортання процесної моделі економічної безпеки галузі, налаштування моніторингу, оцінювання зрілості та планування поліпшень. Стаття присвячена теоретичним аспектам формування економічної безпеки на всіх рівнях ієрархії. Описані підходи до визначення сутності поняття «економічна безпека» підприємства. Особливо приділено увагу використанню процесного підходу до визначення сутності «економічна безпека» на рівні підприємства, галузі та держави. В роботі надана концептуально-ієрархічна схема логіки визначення поняття «економічна безпека», описані мета, об'єкти, суб'єкти та завдання економічної безпеки з позиції процесного підходу. На рівні промислового підприємства визначено процеси управління фінансовими, інформаційними, техніко-технологічними, кадровими, майновими та правовими аспектами економічної безпеки. На галузевому рівні окреслено процеси координації, стандартизації, розвитку виробничих ланцюгів і інтеграції ресурсних і інформаційних потоків економічної безпеки. На державному рівні описано процеси політики, регуляторного забезпечення, інституційної підтримки та стратегічного планування економічної безпеки. Здійснена ідентифікація бізнес-процесів підприємств промислової галузі та визначені основні, допоміжні та управлінські процеси в системі ієрархії. Сформована процесна архітектура визначених процесів, забезпечує узгодженість ролей і відповідальності, підвищує керованість ризиками та підтримує інноваційний розвиток і конкурентоспроможність.

Ключові слова: економічна безпека, процесний підхід, бізнес-процеси, промислове підприємство, промислова галузь, процесна архітектура.

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Modern trends in the functioning of the industrial sector are characterized by increased turbulence of the external and internal environment, as well as by military and political risks, which intensify the requirements for the economic security of the sector and highlight the need to search for new approaches to its effective formation. The purpose of the article is to provide theoretical and methodological justification for the application of process approach to forming the economic security of the industrial sector and to develop a process architecture of economic security at the enterprise, industry and State levels. The study uses the methods of analysis and synthesis to review scientific literature on the selected issue and the methods of comparison and generalization to investigate economic security concepts. This process includes examining approaches, identifying objects of management, classifying processes and developing an architecture of economic security processes. The scientific novelty of the obtained results lies in the integration of the micro-, meso- and macro-levels into a unified process architecture of economic security in the industrial sector with a clear division of processes. The practical value of the study consists in the possibility of using the proposed process architecture as a roadmap for deploying a process-based model of economic security in the industry, configuring monitoring systems, assessing maturity and planning improvements. The article is concerned with the theoretical aspects of forming economic security at all hierarchical levels. Various approaches to defining the concept of “economic security” of an enterprise have been described. Special attention is given to the application of the process approach to defining the essence of “economic security” at enterprise, industry and State levels. The paper presents a conceptual and hierarchical scheme of the logic behind defining the term “economic security” and describes the goals, objects, subject and tasks of economic security from the standpoint of the process approach. The business processes of industrial enterprises have been identified and categorized into the main, auxiliary and management processes within a hierarchical system.

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