



Article

Modern Approaches to Ensuring Regional Economic Security

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Abstract: This article presents the features, priorities, and directions for implementing modern approaches to ensuring regional economic security. Conclusions were also made on the implementation of modern approaches to ensuring the economic security of the region. The study summarizes scientific viewpoints on the nature of economic security and highlights the interdependence between regional development, competitiveness, resource sustainability, and institutional stability. Special attention is given to the role of digital transformation, energy diversification, innovative clusters, financial stability, and human capital development as key pillars of modern economic security strategies. The research also emphasizes the importance of regional and international cooperation, noting that effective economic security today depends not only on internal economic capacity but also on the ability of regions to integrate into global and regional economic networks. Furthermore, the article outlines a comprehensive system of modern mechanisms—ranging from cybersecurity and renewable energy to risk monitoring and the modernization of infrastructure—designed to safeguard regional interests in the long run. The findings suggest that economic security can only be ensured through an integrated, forward-looking approach that balances economic growth with social welfare, environmental sustainability, and technological innovation. Ultimately, the study concludes that regions adopting modern, flexible, and innovative approaches will be better positioned to withstand external shocks and maintain sustainable development in an increasingly competitive global environment.

Keywords: Region, security, economic security, approach, modern approach.

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1. Introduction

The deepening of the globalization process, the complication of international economic relations, and the intensification of interregional competition are making the issue of economic security the most pressing issue of our time. Because the economic security of the region is aimed at protecting the economic interests, resources, production potential, financial system, and social stability of the region from internal and external threats. Over the past decade, the consequences of the pandemic, geopolitical tensions, energy shortages, increasing digital risks, and climate change have created new threats to the economic security of the regions. Therefore, modern approaches, innovative management mechanisms, and new economic models play an important role in ensuring economic security [1].

2. Materials and Methods

First of all, modern approaches to ensuring the economic security of the region are characteristic, and various scientific and theoretical studies have been conducted on this issue. In particular, according to research, regional security includes natural-technogenic, food, general economic, socio-political, and social (personal and property) security. Another study examines the role of international organizations in ensuring regional security. That is, international regional organizations are mainly created to regulate cooperation between states belonging to the same region [2].

In research, economic security reflects the ability of a region to be protected from factors hindering its sustainable economic development. Based on it, as a result of approaches to understanding economic security and emphasizing the importance of innovation as part of the regional system, the strategic goal, tasks, and principles of developing innovative potential in the development of regions have been determined [3]. This will allow for an increase in the standard of living of the population, improving the quality of productivity, and so on. According to other studies, the region's economy, as a key element of the national economic system, achieves its sustainable development by improving economic security. The purpose of the research in this area is to develop a methodological approach to assessing the level of economic security of the region [4].

According to other studies, the analysis and improvement of the system of theoretical and economic tools for diagnosing and ensuring financial and budget security is of great importance. In this regard, scientific approaches to the disclosure of the concept of the mechanism for ensuring economic security, its most important part - financial and budgetary security, are being studied [5]. The above mechanism is studied only at the national (macro) level. However, insufficient attention is paid to the study of this concept at the regional level (mesoscale). Therefore, in this study, the concept of the mechanism for ensuring the financial and budgetary security of the region has been formulated, and a new set of diagnostic tools for indicators of financial and budgetary security at the regional level is proposed [6].

In other studies, it is substantiated that modern approaches to ensuring the economic security of the region are implemented within the framework of the system. The study examines the system of regional economic security in the context of new national and regional risks and threats [7]. The direction of research in this area is aimed at ensuring regional economic security. That is, taking into account the strategic priorities of digital development, the systematization of approaches to determining the category of regional economic security and the conceptual and categorical system of the theory of economic security have been clarified [8].

Other studies emphasize the relevance and practical significance of developing a modern concept for ensuring economic security at the meso and macro levels. The results of this study include an assessment of the effectiveness of modern tools for monitoring economic security at the international level [9].

According to other studies, an analysis of the methods developed to create an effective system of regional economic security, which is important for national security, is presented, and the goals of economic security management, which determine the proposed methods, are described. That is, the concept of a regional system for ensuring economic security is defined, and the objects of security are identified [10]. The relevance of creating direct and reverse data flows with state executive bodies, especially fiscal and law enforcement agencies, is determined, and the need to develop forms of interaction with social groups and economic agents is substantiated. Socio-economic indicators serve as criteria for the effectiveness of the economic security system. All elements of this system, integrated into the system of managing the development of the socio-economic region, will have block representation. Based on it, it is emphasized that in the process of comprehensive assessment, it is necessary to determine the specific weight value of each security component.

Based on other studies, it defines the relationship between economic security and competitiveness and substantiates the influence of the competitiveness of industrial enterprises on regional economic security. Based on this, the study of conceptual

approaches to the term "regional economic security," the identification of the subject and object of this category, the identification of the most important aspects affecting regional economic security, and the development of a methodological approach to assessing the level of economic security from this point of view are substantiated [11].

According to research, ensuring economic security in the region is one of the strategic priorities for each state and the region as a whole in the process of modern global complications. Instability in the global economic system, increasing geopolitical competition, a high dependence on imports, resource scarcity, inflation, and external factors leading to financial instability pose a threat to the economic stability of the region. Therefore, economic security manifests itself as a means of solving economic problems and a key condition guaranteeing national independence and sustainable development.

3. Results

In ensuring economic security, strengthening the internal stability of the economic system is of paramount importance. This requires maintaining macroeconomic indicators at a healthy level, reducing inflationary pressure, optimizing public debt, ensuring the stable functioning of the banking system, and diversifying financial markets. The states of the region need to strengthen a pragmatic approach to economic policy and ensure the continuity of market reforms. An important role in this is played by stimulating the activity of the private sector, increasing competitiveness, and deepening institutional reforms.

Another key aspect of economic security in research is the formation of sustainable mechanisms against resource and supply risks. In this regard, a large part of the countries of the region depend on foreign markets for the needs of energy, raw materials, and food products. Therefore, the expansion of domestic production, the rational use of agricultural potential, the development of the processing industry, and the diversification of energy sources will serve to significantly reduce economic risks. In particular, the development of renewable energy sources, strengthening regional energy integration, and creating strategic reserves are of great importance in this direction [12].

In particular, the development of renewable energy sources, strengthening regional energy integration, and creating strategic reserves are of great importance in this direction:

1. economic independence. This refers to the region's ability to independently make resource, production, and financial decisions, but excessive dependence on raw materials or imports poses a risk;
2. economic stability. This reflects the potential of the economic system to recover itself in the event of market fluctuations, economic crises, or external influences;
3. competitiveness. This means the level of competitiveness of the region's production potential and services in domestic and foreign markets;
4. security of strategic resources. This means a guaranteed supply of energy, food, water, and other important resources.;
5. innovative development. This means the impact of technological innovations, digital transformation, and intellectual potential on economic security.

Also, in the modern world, economic security is inextricably linked not only with economic indicators, but also with political, social, environmental, technological, and informational factors. In this regard, modern approaches to ensuring the economic security of the region are characterized as follows Table 1.

Table 1. Description of modern approaches to ensuring the economic security of the region

No	Modern approach	Content	Application mechanisms	Expected results
1	Digital transformation	Rapid risk identification through digitalization of	Electronic platforms, big data and monitoring	Increasing transparency and reducing savings

		economic processes		
2	Innovative clusters and technology parks	Diversification of the regional economy based on innovation	Cluster policy and support for the startup ecosystem	Increase the rate of renewal and create new jobs
3	Economic diversification	Reducing dependence on one network	Opening new industries and attracting investments	Strengthening stability and resilience to external shocks
4	Ensuring energy security	Stability and compactness of energy sources	Renewable Energy and Energy Saving Programs	Reduction of energy costs and granting energy independence
5	Intersectoral integration	Integration of logistics, industry, and agriculture	Development of transit routes and logistics hubs	Increasing regional competitiveness
6	International economic cooperation	Integration with regional organizations	SVO, EAEU, SCO Formats and Trade Agreements	Expansion of export opportunities and increasing investment flows
7	Joint risk monitoring and forecasting	Risk forecasting and assessment	System of macroeconomic monitoring and indicators	Quick Crisis Response
8	Personnel capacity building	Formation of modern knowledgeable labor resources	Reskilling, up-skilling va STEM-ta'lim	Strengthening the personnel base for the innovative economy
9	Modernization of regional infrastructure	Renewal of transport, IT and industrial infrastructure	Roads, logistics centers, and internet speed	Increasing investment attractiveness
10	Ecological sustainability	Balancing economic growth with ecology	"green economy" programs and ESG standards	Sustainable development and resource conservation

According to this table, economic security should be subject to modern threats. In this new era, the scale of various threats has expanded, and their nature has changed. Pandemics, trade wars, geopolitical conflicts, and fluctuations in energy markets have a strong impact on regional economies. Dependence on energy resources, sharp price fluctuations, and insufficient share of renewable energy pose risks. Cyberattacks, damage to information systems, and vulnerabilities of the digital economy can disrupt economic activity. Climate change, drought, water scarcity, and disruption of global supply chains threaten regional stability. Currency fluctuations, banking crises, and illegal capital flight weaken economic security. Population growth, social inequality, and environmental problems indirectly affect the region's economy [13].

However, in modern conditions, traditional approaches to ensuring economic security are insufficient. It is necessary to rely on new technologies, innovative

management mechanisms, and global experience. In this regard, the following modern approaches to ensuring economic security are characteristic:

1. an approach based on innovative and technological development. Digital technologies have become one of the main pillars of economic security. These include digital government, e-commerce platforms, "smart" production systems, and management based on Big Data, AI, and IoT [14].

These technologies accelerate economic processes, reduce costs, and strengthen control mechanisms. In the application of cybersecurity strategies, along with the digitalization of economic systems, strengthening cybersecurity is of great importance. This requires the introduction of unified cybersecurity platforms, risk monitoring and rapid response systems, as well as information security standards for the public and private sectors.

1. modern solutions in ensuring energy security. This energy sector is considered a central element of economic security. Modern approaches in this area are based on the diversification of energy sources. It is based on reducing dependence on oil and gas, increasing the share of renewable energy, using the capabilities of nuclear energy, and increasing energy efficiency. It is also aimed at reducing energy losses through technical and technological updates.
2. innovative mechanisms for ensuring food and water security are characterized by resource-saving technologies and modernization of agricultural technologies. Their tasks are based on drip irrigation and land and water monitoring (GIS and satellite technologies), as well as greenhouse technologies, the development of breeding and seed production, and the agro-cluster system.
3. modern approaches to financial security. This is based on such areas as reform of the banking system (strengthening capitalization and modernizing risk management systems, adaptation to the cryptocurrency and digital financial environment (control over the digital asset market and the introduction of financial technologies), as well as investment security (risk assessment in attracting foreign investment and a system of guarantees for investors).
4. interregional cooperation is becoming one of the most effective mechanisms of economic security. In this regard, the advantages achieved through integration are based on the formation of a single trade market, the expansion of transport and logistics networks, the joint implementation of energy projects, and the exchange of technologies and investments. Modern integration tools include transboundary economic zones, free trade zones, and common infrastructure projects..
5. as information security and economic stability, control over information flows, protection from false information, and the use of high-quality information in economic decision-making have become important areas of economic security. Modern methods in this area are based on the design of state information systems, information analysis based on artificial intelligence, and the creation of economic intelligence and analytical centers.
6. it is necessary to ensure social stability and develop human capital. In this regard, economic security directly relies on healthy, highly qualified, and innovative human capital. Modern approaches in this area include the modernization of the education system, the development of digital skills, strengthening social protection systems, and supporting youth employment.

Regional cooperation is one of the decisive factors in strengthening economic security. Because the integration of transport and communication networks in a single economic space, increasing the scale of trade in goods and services, improving the investment climate, and developing joint projects ensure the harmonization of the interests of all states. In particular, the reduction of trade barriers, the modernization of logistics corridors, and the coordinated implementation of the digital economy will form a unified immunity against economic risks in the region [15].

At the same time, ensuring economic security also covers issues of information technology and cybersecurity. Because the expansion of the digitalization of the financial system, industrial enterprises, energy infrastructure, and public administration increases the risk of cyberattacks. It is necessary to introduce unified information protection systems in the region, harmonize national cybersecurity strategies, and develop mechanisms for early detection of threats. Along with this, the social well-being of the population, the level of employment, and the development of human capital play an important role in strengthening economic security. Because highly qualified personnel, a healthy and stable labor market, and effective social policy are among the decisive factors in creating a stable economic system. Investing in human capital, developing education and science, and stimulating innovation will contribute to increasing the region's global competitiveness.

4. Conclusion

In conclusion, ensuring economic security in the region requires a comprehensive, integrated, and long-term approach. Reforms in the economic sphere, institutional stability, diversification, rational use of resources, regional cooperation and innovative development are considered the main pillars of sustainable economic security. If states pursue a coordinated policy in these areas, the region will have a stable immunity to internal economic risks, that is, external global influences. This is the most reliable guarantee of long-term economic growth, social well-being, and strategic stability. According to it, ensuring the economic security of the region in modern conditions is considered a multifaceted and complex process. Its success will depend on such factors as the widespread use of innovative and digital technologies, ensuring energy, food, and water security, strengthening financial stability, deepening regional integration and international cooperation, investing in human capital, and enhancing information security. As a result, the economic security strategy, formed on the basis of modern approaches, ensures the sustainable development of the region, increases the level of economic independence, and allows it to occupy a successful position in the context of global competition.

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