Information and analytical support for the State defense order in Ukraine

Інформаційно-аналітичне забезпечення державного оборонного замовлення в Україні

Abstract

The purpose of the article is to reveal the essence of the information and analytical support for the State defense order in Ukraine. Research results. Theoretical approaches to defining the essence of the concepts of information and analytical activity and information and analytical support are considered, their role and purpose are revealed. Practical meaning. The author’s definition of the term «information and analytical support of the state defense order in Ukraine» is proposed as a complex of organizational and legal systematic measures aimed at the collection, processing, analysis and generalization of information materials in order to ensure effective planning, coordination, monitoring and control of the execution of State defense orders, which includes the use of modern information technologies, analytical methods and expert assessments, promoting effective management within the defense sector of the state. Value/originality. It is proven that the role of the investigated institution is to protect territorial integrity and sovereignty, ensure informed decision-making, planning and

Anotaція

Мета статті полягає в розкритті сутності інформаційно-аналітичне забезпечення державного оборонного замовлення в Україні. Результати дослідження. Розглянуто теоретичні підходи до визначення сутності поняття інформаційно-аналітична діяльність та інформаційно-аналітичне забезпечення, розкрито їх роль і мету. Практичне значення. Запропоновано авторське визначення дефініції «інформаційно-аналітичне забезпечення державного оборонного замовлення в Україні» як комплекс організаційно-правових систематичних заходів, спрямованих на збір, обробку, аналіз та узагальнення інформаційних матеріалів з метою забезпечення ефективного планування, координації, моніторингу та контролю виконання державних оборонних замовлень, що включає використання сучасних інформаційних технологій, аналітичних методів та експертних оцінок, сприяючи ефективному управлінню в межах оборонного сектору держави. Цінність/оригіналість. Доведено, що роль досліджуваного інституту полягає у захисті територіальної цілісності та

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coordination, monitoring and control, development of internal and external potentials, ensuring information security, development of the information base, ensuring effective communication, supporting scientific research, innovation and technological development.

**Keywords:** activity, defense procurement, information and analytical support, State defense order, Register.

**Introduction**

The issue of ensuring the appropriate level of defense capability of Ukraine in terms of its resistance to the aggression by the Russian Federation is very acute. In this regard, from the standpoint of the State’s stability and sustainable development of all its institutions (Tatarova et al., 2022, p. 215), fulfilling the task of increasing the level of capabilities of the country’s defense forces and ensuring the rational spending of budget funds, effective functioning and development of the State defense procurement system is an urgent problem of State importance. In turn, the information and analytical support for the State defense procurement system, as a basic subsystem, plays a decisive role in the organizational and economic mechanism of the state defense procurement system in general (Holota, 2020).

The active development of information and analytical activity in domestic public and commercial institutions has acquired the character of one of the significant trends of recent times. Its actualization is due to a number of objective facts: on the one hand, it is the democratization of social life, the development of market relations, legitimacy, the rapid evolution of entrepreneurial activity, and on the other one – the related increase in the importance of the intellectual component of decision-making in management and other spheres of social life, as well as the constant flow of information necessary for the adoption of administrative decisions and the implementation of other types of social activities.

In recent times, there has been a rather widespread recognition of the information and analytical activity social status, which has a number of characteristics (public awareness of the existence of analytics, recognition of this phenomenon as an instrument for managing complex processes, means of revealing the essence of the events taking place and in predicting their further development, forming ideas about professional analyst as an expert with exclusive knowledge).

Thus, the purpose of the article is to reveal the information and analytical support for the State defense order in Ukraine on the basis of the theory of administrative and military law, rules of national legislation and the latest works by the scientists.

To achieve this aim, the following tasks should be resolved:

1) to understand the essence of information and analytical support in information management of public administration by developing theoretical approaches to the definition of this concept;
2) to define the role and purpose of information and analytical support of the defense sphere of Ukraine;
3) to investigate information and analytical activity, through which this type of support is carried out;
4) to examine the legal nature of the Register of participants in the selection and execution of public contract as the main instrumental component of the information and analytical provision of the State defense order;
5) to determine the main aspects of the information and analytical support for the State defense order in Ukraine.

**Literature Review**

The formation of information analytics as a special field of activity took place in the shortest possible time, in an environment of maximum intensification of all processes and aggravation of many problems. Despite the fact that analytical activity has been used for a long time, its classification and precise definition have not yet been developed. In this regard, Sliadnieva
(2001) proposed the following definition “information analytics deals with the production of new knowledge based on the processing of existing information in order to optimize decision-making. Modern information analytics is a complex activity that relies on both natural intelligence and computer technologies for operating information arrays, methods of mathematical modeling of processes, etc.”

Information provision is an important function in state management activities. In the absence of the necessary information, it is difficult to make objective and timely state management decisions. In this regard, the work of state bodies should be provided with timely information support.

Information and analytical support is the process of creating optimal conditions for meeting information needs and implementing official duties of state authorities based on the formation and use of information resources. The goal of information and analytical support for the State executive bodies is to create conditions for making effective public management decisions (Puhach, 2010).

The term “information and analytical support” consists of two interrelated elements, namely:

- information, which is related to the independent activity of specially trained specialists engaged in searching, selecting, processing, accumulating, summarizing and saving information units (the first stage of the process of information and analytical support in the management system of any mechanism);
- analytical, which is a derivative of the second stage of the process of information and analytical support in the management system of any mechanism: production by specially trained specialists on the basis of available information units and complex mental processes of new knowledge about the phenomenon or event being studied (Koval, 2008).

According to Teleshun et al., (2007) information and analytical support is a set of technologies, methods of collecting and processing information, characterizing the object of managerial influence, specific methods of their diagnosis, analysis and synthesis, as well the assessment of the consequences of making various options for decisions.

Parkhomenko (2006) states that information and analytical support is the system of interrelated methods, measures and tools, implementing the creation and functioning of the technology of the process of collection, transfer, processing, storage and issuance (display), as well as the use of information for the purpose of carrying out effective activities in one or another area.

In the opinion by Pushak (2001), information and analytical support is an organic set of initial data, indicators and methods of their determination and analytical evaluation, which can be a scientific and methodical prerequisite for making appropriate decisions by regional management bodies when determining effective directions for the development of entrepreneurship.

Methodology

The methodological basis for the research is based on an organic combination of epistemological, ontological, deontological, and axiological approaches. The research is based on systemic, structural-functional, sociological, synergistic, hermeneutic, linguistic and logical-semantic approaches.

The basic method is the systematic approach, which made it possible to establish the relationship of social processes and phenomena with the implementation of information and analytical activities and to reveal the essence of information and analytical support of the State defense order in Ukraine.

With the help of dialectical and historical methods, the genesis of scientific works devoted to certain aspects of the investigated issue was studied.

The method of synergistic analysis made it possible to understand the role of information and analytical support in the Ukrainian defense sphere.

Formal-logical and sociological methods helped to reflect the role and place of analytical and information activity in the life of society, to establish its place in the procurement system of Ukraine.

With the help of a linguistic approach and a formal legal method, the legal meaning of the key concepts of the study was clarified (“information”, “information and analytical activity”, “information and analytical support”, etc.)
The structural and functional method contributed to identifying the most important aspects of information and analytical support for the State defense order in Ukraine.

Content analysis method was used to examine the rules of laws and by-laws governing the studied problem.

Using modeling and legal method helped to formulate the main opinions related to the research.

**Results and Discussion**

Information and analytical activity is undoubtedly a broad and multifaceted sphere. It includes the selection and systematization of facts on a certain issue, their evaluation, selection, interpretation, clear and thoughtful presentation in oral or written form. It is worth noting that obtaining necessary materials, activities related to the acquisition, systematization, translation and distribution of books and documents do not belong here (Varenko, 2014, p. 15).

To understand the essence of information and analytical support in information management of public administration, it is necessary, first of all, to develop well-known theoretical approaches to the definition of this important concept, generalize them and propose a definition that more adequately corresponds to its essence, as well as justify its role and place in general public administration.

The term “informational and analytical support” is quite often used in various spheres of state activity, in particular, in matters of public administration. Overall analysis indicates that information and analysis support in the complex process of information support of the state administration system occupies one of the key places. However, today there is no unified understanding of this important concept; it has a semantic contradiction in scientific and journalistic articles. As a result, there is a problem that prevents both the development of methodological foundations of information support in the state administration system and its practical implementation.

Sarychev (2017, p. 127) proves that information and analytical support is a set of measures to implement documented information products (analytical documents) based on the use of static information resources (documented data and information), conducting calculations, modeling situations, their analysis and synthesis in order to support the adoption of appropriate decisions at all levels of public administration.

Lytvychenko (2021, pp. 123-124) understands information provision as the presentation and organization of information, which will meet the needs of information system users and the requirements of automated data processing. The management of information provision means clear information flow processes from the moment of its creation to the use, application of classification and coding systems, creation of information and logical models of information arrays, management of changes in existing information systems, solving routine problems on the quality of information systems, etc.

Information and analytical support of the defense sphere of Ukraine is considered by Sokurenko (2016, pp. 29-30) as functionally and structurally dedicated specially organized activity of public administration actors in the sphere of defense, which involves collection, accumulation and processing of data; search, analysis and generalization of information; obtaining special knowledge aimed at quality assurance of their managerial activities. This support system needs immediate improvement by creating a special structural unit in the system of public administration bodies in the relevant field, which would accumulate all information of a defense nature and maintain a communication system with all interested subjects and scientific institutions.

The scientists Snitsarenko and Sarychev (2017, p. 87) proposed a new definition of information and analytical support (in the military sphere) as the set of measures to implement the processes of creating information products (analytical materials) based on the use of static information resources (documented data and information), obtained as a result of monitoring, as well as by conducting calculations, modeling situations, analyzing and synthesizing data and information, in order to support decision-making by military management bodies at all levels.

Accordingly, in our opinion, information and analytical support for the State defense order in Ukraine is a complex of organizational and legal systematic measures aimed at the collection, processing, analysis and generalization of information in order to ensure effective planning, coordination, monitoring and control of execution of state defense orders, which includes the use of modern information technologies, analytical methods and expert assessments.
contributing to effective management within the defense sector of the state.

Regarding the role and purpose of information and analytical support of the defense sphere of Ukraine, Sokurenko (2016, p. 22) indicates that its main goal of is comprehensive scientific, theoretical and informational assistance of the activities of public administration bodies and public organizations of the defense sector based on a complex of organizational, research, legal, technical and other measures.

Its role lies in the production of analytically substantiated and documented information products, which are provided for management decisions that do not require real action in real time, and its place is determined by the sequence of information processes in the general cybernetic circuit of state administration, in particular, the military sphere. The obtained results, subject to their implementation in practice, allow for the best possible division of responsibility and duties of executors in the single contour of government in the military sphere.

The improvement of the defense resource management system and the rapid development of the latest information technologies require the use of new approaches both to the construction of information systems for management of defense resources, and to the administration of their information support. Control of compliance of the provided information with user needs is the key function of information provision managing.

Another principal function is to present technologies, on the basis of which the interests of all parties involved in information activities are coordinated. The complexity of information control in the field of defense resource management is determined by constant changes in the functional environment, the emergence of new goals and the search for new solutions. Changes in the functional environment require relevant shifts in management processes to ensure compliance with the new requirements of the number of participants involved in the creation and use of information resources (Lytovchenko, 2021, p. 123-124).

Information and analytical provision of the defense sphere is performed through information and analytical activity – a specific area of information work related to the detection, processing, preservation and dissemination of information mainly in the field of management, political and economic activities. However, for the defense sector, it is not so much the timely provision of primary information as early detection of problem situations and prediction of development of events. It is the need to predict, identify and forecast trends in the evolution of the situation that determines the use of various analytical techniques for processing source information. Identifying possible ways of developing the situation requires not only the consolidation of the revealed information, but also its assessment (Sokurenko, 2016, p. 22).

Information and analytical support closely interacts with condition monitoring as a separate type of information support in the state administration system. Its role is to develop analytically substantiated proposals for making effective state management decisions (on the basis of available information resources obtained with the help of information infrastructure), and its place is determined by the nature of the task of assessing and forecasting the state (development) of the object (process) of public administration.

In addition, information technology innovations in public administration in general and public administration in the field of defense in particular should be of a complex nature, be associated with the simultaneous and agreed use of informational, organizational, legal, sociopsychological, personnel, technical and many other factors. All this requires a comprehensive approach, a qualitative change in the system of working with information, as well as in the functional and organizational structure of management, the composition of all management activities in the defense sphere. Formation of modern information and analytical and software support systems for management decisions will provide an opportunity for public administration actors of the defense sector to quickly analyze and assess the situation in all areas of the State’s defense activities. To this end, existing information systems should be integrated in the defense sphere of Ukraine, that is, it is necessary to create a unified information and telecommunications system for collecting, processing and transmitting data necessary for making strategically important decisions in the administrative and political sphere of public management (Sokurenko, 2016, p. 22).

The main instrumental component of the information and analytical provision of the State defense order in Ukraine is the Register of participants in the selection and execution of public contracts.
According to the Law of Ukraine No. 808-IX (2020), the Register is created as an automated system. It is maintained for the purpose of monitoring information on executed state contracts (agreements), keeping the information on the participants of the selection up to date and ensuring transparency of information about participants of selection and performers of state contracts (contracts), objectivity of evaluation, selection and re-evaluation of executors of state contracts, taking into account on their ability to produce and supply goods, perform works and provide services in accordance with the needs of government customers.

The Register ensures systematization and retrospective analysis of the data on economic entities in defense procurement according to the following classification features:

1) range of goods, works, and services for defense purposes produced by the economic entity, works and services performed by such an actor;
2) the price of goods, works, services for defense purposes, including, but not limited to, the fixed price of such products, based on the results of pre-procurement in compliance with the legislation on information protection;
3) financial and economic condition of the enterprise;
4) presence of certain types of production activity of the enterprise;
5) availability of the necessary production and technical capacity of the enterprise;
6) presence of necessary objects of intellectual property right;
7) performing or participating in research and other work;
8) potential statutory grounds for refusal of contract based on the results of trades.

The processing of information with limited access and information constituting a State secret in the Register is carried out in accordance with the laws of Ukraine “On Protection of Information in Automated Systems” (Law of Ukraine No. 8094-VR, 1994) and “On State Secrets” (Law of Ukraine No. 3855-XII, 1994). The procedure for creating and maintaining the Register of participants in selection and executors of state contracts (agreements) is approved by the Cabinet of Ministers of Ukraine. Responsibility for the administration and ensuring the functioning of the Register rests with the main body in the field of defense procurement planning. Officials of this agency are responsible for improper administration and operation of the Register in accordance with the Ukrainian legislation.

According to the Resolution of the Cabinet of Ministers of Ukraine No. 233 (2021), the Register is a system of accumulation, processing, accounting, protection and provision of information on the participants of selection and performers of state contracts. The Register is a state information resource. State customers receive information from the register free of charge. The holder and administrator of the Register is the Ministry of Strategy and Industry, which ensures its creation, operation, maintenance and administration. The Ministry within its powers:

takes measures to create, implement, support the software of the Registry using information and telecommunication technologies;
is responsible for technical and technological support, preservation and protection of registry data;
carries out technical and technological measures for granting, blocking and canceling access to the Registry, keeps records of users;
ensures verification of the accuracy of data submitted to the register, compliance by users with technological discipline and information security, training on data entry and use of the register;
carries out systematization and retrospective analysis of data on business entities involved in defense procurement;
forms analytical reporting on certain indicators;
ensures publication of the list of business entities included in the register;
supports the website hosting the Register;
maintains the publication of information on the specified website.

In general, the role of information and analytical support for the State defense order in Ukraine is extremely important and includes the following aspects:

1. Protection of the territorial integrity and sovereignty of the State: information and analytical support of the State defense order in Ukraine is aimed at increasing the efficiency and reliability of the national defense system, ensuring security and sovereignty of the country.
2. Ensuring informed decision-making: information and analytical support provides the necessary information, analysis and assessment, which help military management bodies to make informed, legal and optimal decisions regarding the State
defense order in compliance with priorities, requirements and strategic directions in the development of defense forces and production military equipment.

3. Planning and coordination: information and analytical support helps to ensure effective planning and coordination of the state defense order (identification of needs, allocation of resources, establishment of deadlines and interaction between various subjects involved in the implementation of the order).

4. Monitoring and control: information and analytical support ensures systematic monitoring and control of the execution of the State defense order.

5. Development of internal and external potentials: information and analytical support contributes to the development of internal and external potentials of the State defense order, which includes the search and analysis of new technologies, scientific research, market trends and potential partners to increase the efficiency and competitiveness of defense programs.

6. Ensuring information security: development and application of measures to protect confidential State information, cyber security and counter data leakage.

7. Development of the information base: information and analytical support contributes to the promotion of the information base, which includes the data on the State defense order (creation and management of databases, information collection and analysis systems, as well as the development of methods of information modeling and forecasting).

8. Ensuring effective communication: information and analytical support promotes effective communication between various actors involved in the implementation of the State defense order (exchange of information, common understanding and coordination of actions, which facilitates effective performance of tasks and achievement of set goals.

9. Support for scientific research, innovation and technological development: information and analytical support provides assistance to scientific research and innovation in the field of State defense procurement, promotes technological development in this sphere (implementation of advanced technologies and research to increase the efficiency and competitiveness of defense programs).

Conclusion

The successful operation of the institution is impossible without provision of the necessary information, which contributes to the improvement of the quality of the decisions made. Information provision is one of the types of provision of management processes, which includes a set of information resources, means, methods and technologies for collecting, processing and issuing information used in interests of the organization.

Information and analytical activity is work, which, using the capabilities of the relevant services, is aimed at fulfilling the task of qualitative and meaningful transformation of information, functionally intersecting in this regard with scientific (production of new knowledge) and managerial (development of options solutions, scenarios) operation (Parkhomenko, 2006).

Information and analytical services (subdivisions) began to be established in the structure of government bodies, in ministries and agencies, in the business sphere, and in political parties and organizations. A common distinguishing feature of these services is their organic integration into the relevant spheres of activity, functional and organizational symbiosis with their social institutions and specific organizations. In the activities of data analytical services, which are called to provide management information support in the relevant spheres, the information-supporting nature of information analysis is most clearly visible, which makes the latter akin to other types of information and infrastructure, information and support services that traditionally organize the information space, optimizing and directing traffic information flows that ensure the preservation of accumulated information resources, etc. They include both the oldest inventions of mankind (libraries, archives, bibliographic services), as well as more modern reference services, NTI bodies, and the latest companies that develop electronic (including network) information resources (Zakharova & Filipova, 2013, p. 6).

Information and analytical support for the State defense order in Ukraine plays a crucial role as well. Its role is to protect territorial integrity and sovereignty, ensure informed decision-making, planning and coordination, monitoring and control, development of internal and external potentials, ensuring information security, development of the information base, ensuring
effective communication, supporting scientific research, innovation and technological development. In our opinion, this institution in the investigated area is a complex of organizational and legal systematic measures aimed at the collection, processing, analysis and generalization of information in order to ensure effective planning, coordination, monitoring and control of execution of state defense orders, which includes the use of modern information technologies, analytical methods and expert assessments, contributing to effective management within the defense sector of the State.

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