

Path Selection for Coordinative Development of National Economy

Mobilization Informationization and Logistics Visualization

Tongyu Ji, HongqiangHan

Military Economics Academy of PLA, Wuhan City, Hubei Province, 430035, China

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Abstract: as the crucial constituent of modern war, national economy mobilization informationization complies with current development trends of times, which could be an effective method to transform the civilian resources in national economic system to the military resources. It is closely related with the logistics of army. However, the logistics visualization construction is the major content running through the logistics construction of our army, which requires the organic coordination with the national economy mobilization informationization. Therefore, which path shall be selected to realize the harmonious development between them and promote the rapid zooming of logistics guarantee capability in our army is the significant topic urgent to be solved at present.

Logistics is an important part of national economic activities, and also an extension of the national economy in the military field. National economy mobilization, as the significant bridge connecting the national economy with military logistics, plays a crucial role during the transformation from economic potential to guarantee capacity. Currently, in the field of our military logistics, there are visual development trends in a series of links such as resource collection, storage, transportation, security, which requires the national economy mobilization to combine with the modern informationization technology to realize the coordinated development of the national economy mobilization informatization and logistics visualization for establishment of the efficient economic mobilization construction pattern adapting to the future informatization war.

Practical significance of realizing the coordinated development of national economy mobilization informationization and logistics visualization

The purpose of coordination is to transform the disordered material motion into an ordered material motion. The modern war, especially the informationization war, presents a series of new features such as sudden outbreak of war, compact rhythm, three-dimensional battlefield environment, accurate attacked target, huge material consumption. These changes have also brought about a revolution in the field of logistics guarantee and put forward higher requirements for the guarantee accuracy, speed, strength and benefits. It is of great practical significance for practical improvement of logistic guarantee capacity to realize the coordinated development of the national economy mobilization informationization and the logistics visualization and to combine the two closely without seam by using the leading information technology.

With the rapid development of modern war, accurate logistics guarantee is imperative. Military logistics must have multidimensional guarantee capacity and use information network for integration to carry out real-time monitoring, accurate adjustment and control in the process of guarantee and arrange the guarantee supplies, guarantee personnel and other logistical information flexibly with change of battlefield situation. The coordinated development of the national economy

mobilization informatization and logistic visualization and construction of information and data flow between army and civilian can facilitate realization of visualization effect in stock, flow and use of supplies and demands of both sides so that the optimal resource allocation can be achieved.

The most significant feature of information war is "fast". The accessible Internet, simultaneously multi-dimensional battlefield, constantly changing war and fast-paced and fast-change battlefield require that logistics guarantee must make quick response to the informationization war to win valuable time and grasp the initiative in the war. The key to improve the guarantee speed is to reduce the intermediate links. The coordinated development of the national economy mobilization informationization and logistics visualization can open communication channels of information, enhance the information processing capability, greatly shorten the peacetime conversion time of national economy and improve quick response capacity of our military logistics guarantee.

Weapons in informationization war have high degree of automation, fast firing rate, high accuracy and large destructive effect and other outstanding features. Material consumption in the unit time is sizeable. Therefore, military logistics system must work with full load continuously. However, the traditional guarantee mode of step-by step delivery has been unable to meet this intensity requirement. If coordinated development is realized between national economy mobilization informatization and logistics visualization, the complete national economy database resource can be used to adjust military production scale in time and accomplish the rapid transition from civilian production to military production to meet the demand of high intensity of guarantee in war.

Basic principles of realizing the coordinated development of national economy mobilization informationization and logistics visualization

Logistics guarantee capacity can be improved stably only by means of coordination and interaction between national economy mobilization information and logistics visualization. Therefore, in the construction of national economy mobilization informationization, we must adhere to the scientific development direction and carry out the systematic improvement coordinated with logistics visualization based on the real needs of our army scientifically and reasonably. This systematic improvement project shall not only adapt to the actual situation in the development of military logistics but also match to the operation situation of national economy so as to achieve the stable and orderly development of the whole system.

In order to realize the coordinated development of the national economy mobilization informatization and logistics visualization, we must follow the dynamic principle so that the whole system can acquire qualitative change from quantitative change. On the one hand, we shall be driven by information technology to carry out information penetration, information transformation, information fusion and information integration in various links of national economy mobilization work to accelerate the transition of national economy mobilization form from mechanization to informationization; on the other hand, we shall promote various subsystems in national economy mobilization information system to interact with each other by setting up the scientific and rational internal operation mechanism to constitute the ordered structure for promoting stable development of the whole system.

Only we adhere to information lead instead of administration lead and control the risk of informationization transformation, can the national economy mobilization informationization system coordinated with logistics visualization established. Firstly, we shall establish scientific development ideas. Construction of national economy mobilization informationization is a long-period and heavy-task systematic project. Therefore, controllability and integrity of

construction can be ensured only in the way of development from top to bottom and step by step; secondly, we shall ensure information security. It is necessary for national economy mobilization informationization to improve security. On the one hand, line security works shall be implemented to ensure the security of information data in the physical space to ensure the reliability and controllability of information system; on the other hand, we shall enhance the stability of information transmission to avoid the disclosure and damage of information during the transmission to ensure availability, confidentiality and completeness of information. We must abide by the bottom line of safe and controllable development of information system.

Path selection for realization of coordinated development of national economy mobilization informationization and logistics visualization

In order to realize the coordinated development of the national economy mobilization informationization and logistics visualization, we shall take the integrated planning, communication mechanism, infrastructure and security and confidentiality as the starting point and end point for good path selection.

Coordinated development of national economy mobilization informatization and logistics visualization is a huge systematic project, involving the vital interests of many departments between army and civilian. If there is not an effective scientific planning to reasonably distinguish functions of various departments and organizations, it will be difficult to realize coordinated development and smooth progress of the whole system. Limited by the development ideas of “breakthrough at key points and breakout separately”, various systems have been divided into many information islands which have too strong regional and professional property to form an orderly integration. In construction of logistics visualization, attention has been paid only to the visualization of each professional service but the target of visualization of the whole assets has not been realized. Therefore, the integrated planning must be strengthened for the coordinated development of the two. Firstly, we shall prepare the complete implementation planning and scheme for system to unify the progress, steps and construction; secondly, we shall complete organization and implementation to select the logistics entity in good conditions as a pilot to discover problems, summarize experience and form system in experiment; thirdly, we shall develop software and adhere to the unified standard, unified interface, enhanced compatibility and avoidance of repetition; fourthly, we shall maintain the communication to ensure unobstructed data transmission all the time.

After years of development, we have made a progress in our military information infrastructure and built a large-scale information transmission system, processing system, basic resources and security protection system. However, in terms of integrity, identity and other basic principles of coordinated development, the current information infrastructure is not perfect, and there are some practical problems, such as not unified operating system, separated construction and repeated investment. Therefore, layout and improvement of infrastructure are the urgent affairs. Firstly, we shall integrate the public information system and information resources comprehensively to establish complete general information infrastructure and improve the interconnection and intercommunication capacity; for mobilization information resources, we shall implement structural integration based on the general ideas of unified system, unified allocation, unified planning, centralized management, divisional development and decentralized maintenance to enhance capacity of resource sharing; the information security management system shall be fully integrated into the overall construction and management of information system to completely solve the practical problem in separation of system construction from the construction of security and

confidentiality; existing various operating platforms shall be cleaned up, transformed and updated, for which the standards shall be unified and interface compatibility level shall be improved.

As the foundation to perfect national economy mobilization information system, creation of scientific economic mobilization potential database is also the important basis to improve network system, decision support system and other relevant subsystems. We shall investigate and understand economic mobilization potentials in all the industries in China according to the ideas of overall planning and unified organization to analyze and induce the investigation results to establish an economic potential visualization database with complete content, scientific classification, real-time update so that management of national economy mobilization information can be more convenient, efficient and standardized.

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