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ENSURING THE EFFICIENT FUNCTIONING OF THE SUPPLY CHAIN IN CONDITIONS OF UNCERTAIN DEMAND

Several modes of transportation are commonly used in the transportation of goods, including road, rail, water, and air. Each mode of transportation has its own unique advantages and disadvantages, so it is important to choose the appropriate mode depending on the nature of the cargo and its destination. Logistics and supply chain management play a crucial role in complex transportation systems for the transportation of goods. The essence of the logistics system is defined as the unity of all links in the transport and technological chain, which allows to ensure the delivery of goods in accordance with orders.

The main characteristic in supply chain management is the value chain. Effective supply chain management is one of the tools of effective management, and therefore increasing business profitability in various areas of business. Effective management of such a supply chain is critical for businesses to remain competitive and meet customer demands.

The first argument in favor of effective supply chain management is cost reduction. By optimizing the supply chain, businesses can minimize waste, reduce inventory costs and optimize operations. The second argument is to avoid failures. Disruptions can be caused by a number of factors, such as natural disasters, political instability or changes in regulations. The third argument is the opportunity to become more sustainable. Sustainable supply chain practices can reduce waste, emissions and improve a company's reputation. However, it is argued that sustainable supply chain practices may not always be financially feasible.

Poor supplier management can lead to disruptions in the supply chain, which can cause production delays, lost profits and unhappy customers. However, effective supplier management can lead to cost savings, better prices, better terms and better payment options. When companies have good relationships with their suppliers, they can negotiate better prices and terms, which can lead to cost savings. Effective management of the supply chain is directly related to the quality of cargo transportation. Their effectiveness is primarily related to the introduction of advanced technologies and automation. The introduction of modern information technologies and software allows to reduce the costs of logistics processes, increase the speed of delivery, and improve inventory management.

Also, an important factor in the effective activity of enterprises in the field of logistics is the organization of a rational warehouse economy, that is, the most important aspect of efficient freight transportation, and especially in conditions of uncertainty is the efficiency of the warehouse. Warehouse operations are an integral part of the entire supply process. They provide for the receipt, storage and movement of products in and out of the warehouse. Efficient warehouse operations can help reduce transportation costs, increase delivery speed, and improve customer satisfaction. To achieve the efficiency of warehouse operations, it is important to have a well-organized and optimized warehouse layout. Accurate inventory

management ensures that products are available when needed, reducing the time and cost associated with being out of stock. Finally, effective communication and collaboration between warehouse staff and other supply chain partners, such as transport providers, is vital.

References

1. Zahurs'kyj, O. M. (2018). Upravlinnia lantsiuhom postachan' [Supply chain management], Bilotserkivdruk, Bila Tserkva, Ukraine.
2. Lomot'ko D. V. (2022). Naukovo-tekhichni doslidzhennya u haluzi transportu. [Scientific and technical research in the field of transport], Akademiya tekhnichnykh nauk Ukrainy, Ivano-Frankivs'k: Vydavets' Kushnir H.M, 2, 216.