

## LOGISTICAL ORGANIZATION OF CARGO TRANSPORTATION

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In today's globalized economy, the efficient management of supply and logistics chains is crucial for enhancing the competitive advantage of organizations. The supply chain encompasses a wide range of activities including procurement, labor and facility management, production, and the final delivery of goods to end-users. A key component of this system is the logistics chain. This paper examines the organization and planning of freight transportation as a central element in logistics chain management.

The selection of transport modes and the optimization of routes are analyzed through a scientific lens. Specifically, the TRAX index is used to evaluate transport service quality based on four critical parameters: safety, reliability, cost, and time. These indicators provide a multidimensional approach for selecting the most appropriate transportation method and route combination tailored to specific cargo requirements and operational goals.

In addition to transport planning, the paper emphasizes the importance of preparing goods for shipment. Key focus areas include packaging, labeling, barcoding, and the correct placement and securing of cargo within the transport vehicle. Proper packaging protects the goods during transit, while clear labeling and barcoding facilitate rapid customs processing and accurate tracking. The strategic placement of barcodes ensures they can be scanned without obstruction during inspections.

Furthermore, the secure fixation of cargo inside transport units minimizes the risk of damage and ensures safe delivery.

Overall, the findings highlight that informed and systematic decision-making within the supply and logistics chain significantly enhances operational efficiency, reduces risks, and ensures customer satisfaction. The integration of analytical methods into logistics planning strengthens the sustainability and responsiveness of modern transportation systems.

### References

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