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Risk costs of the process of urban transport

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Abstract

The subject of this article is an issue concerning the costs caused by risk factors in urban transport. The article discusses the functioning of logistics within urban areas, in terms of meeting the economics needs of agglomeration. It presents decision problems as an implication of risk factors and a cost source in urban transport. Based on the author's model, the study shows an empirical verification of costs in the company of urban transport.

The presented material is an attempt to answer the research problem – in which extent decision-making problems affect the formation of risk factors and how the correct calculation of costs affects the decision-making process. Theoretical (analysis, synthesis, generalizations, comparison) and practical (method of organizing, opinion polls) tools were used to verify the given problem.

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Keywords: urban transport, logistics, decision-making processes, risk factors, costs.

1. Introduction

Here introduce the paper, and put a nomenclature if necessary, in a box with the same font size as the rest of the paper.

Urban logistics has grown of the basis of known principles of logistics such as: coordination of actions in the system approach, focus on flows and looking through the prism of the whole. Flows in urban agglomerations are associated with:

- Organization of urban and suburban passenger transport,
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- Organization of the telecommunications network within the city,
- Organization of inner-city cargo traffic, taking into account storage processes,
- Supplying cities with water, gas, electricity and heat,
- Organization of garbage collection and disposal, as well as sewage treatment,
- Shaping connections of the agglomeration's transport with the macro-region logistics system.

The above mentioned activities make up the daily cycle of life in city as an economic, social and cultural space. Implementation of these issues in the range of urban logistics should ensure optimal conditions for the functioning of the city, taking into account costs, efficiency and services provided in relation of urban entities, including aspects of environmental protection. The quality of the ability to coordinate these actions directly translates into the quality of social life in the agglomeration and functioning conditions of business entities in the agglomeration. Moreover, it affects the elimination of unnecessary transports, shortening a displacement time, reducing inventories of entities functioning in the city, lowering the prices of services realized by these entities for the city, assurance of the ecological and economic development and patency of euro-logistic channels.

Smooth functioning of logistics within urban agglomerations (as in any organization) depends on a management system and a system of implemented sustainable development strategy. The basic tasks include ensuring the development of urban areas, while meeting social, economic and ecological agglomeration's needs, such as: quality of life, management and sustainable development.

A key for further considerations is the economic aspect, which main aspects are presented in Figure 1.

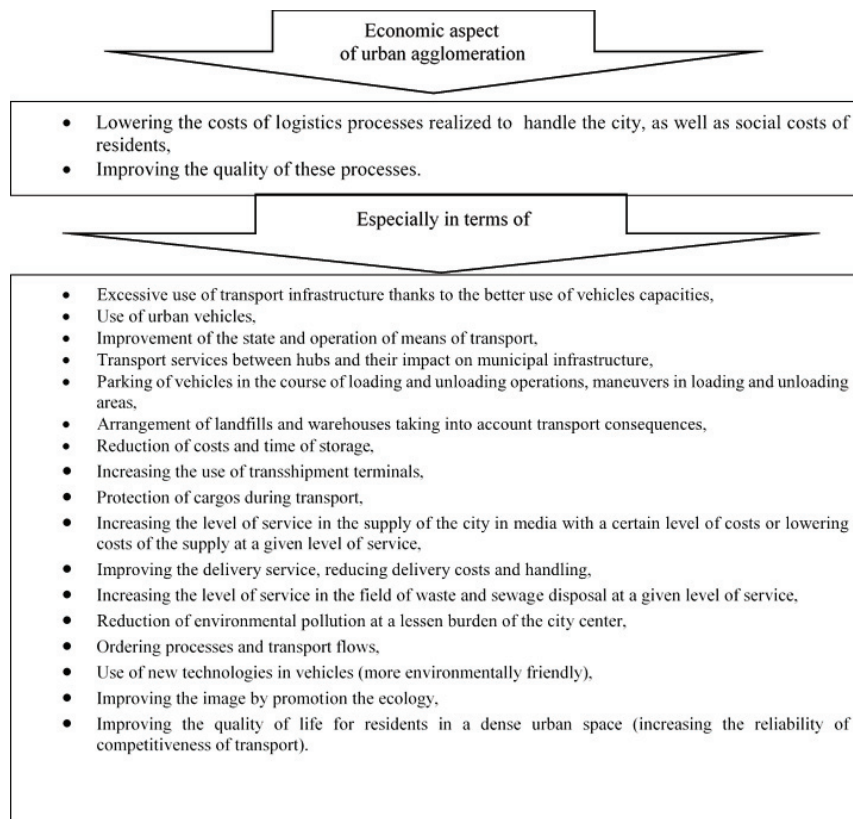


Fig. 1. Economic aspects of urban logistics.

All issues presented in the diagram (Fig. 1) are directly or indirectly connected with the realization of transport processes.

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