

RATIONALE FOR ECONOMIC AND MATHEMATICAL MODELS IN IMPLEMENTATION OF LOGISTICS IN PASSENGER TRANSPORT

L. A. Savchenko

Abstract. *The paper proposes optimization of economic and mathematical model which will give you the ability to clearly predict and generate the appropriate service level of passenger services with minimum costs for their implementation. This paper proposes the use of logistics in the passenger transport, which will greatly improve the transportation process with minimal cost. One of the main tasks of logistics is to meet the needs of consumers with minimized cost and high quality. Applying the concept of “logistics” to passenger transport users should have an appropriate level of service safe, reliable, and continuous delivery. Application of logistic approaches in the design and creation of systems passenger transport should consider the road network of the settlement, to determine the number of vehicles and type of vehicles to service scheduled routes, the mode of motion. One of the key indicators that are calculations of an integrated system of economic-mathematical models of logistic systems is the volume of passenger traffic. Therefore, in the formation and calculation of the previous models of the complex system, it is recommended to perform a series of studies necessary to define the market of passenger services.*

Key words: *logistics, passenger transport, mathematical model, strategic planning, cost, service, logistics system*