

TRANSPORT LOGISTICS INNOVATIONS IN THE REPUBLIC OF BELARUS

Gromak E. V., student

Scientific supervisor – Ladutska N. F., senior lecturer
Belarusian National Technical University
Minsk, Republic of Belarus

In a constantly changing market, it is not enough for logistics enterprises to optimize the existing operations, it is also necessary to introduce new technologies that go far beyond simple automation solutions. The most forward-thinking companies are improving logistics order fulfillment by using a combination of innovative robots, artificial intelligence solutions, Internet of Things (IoT) devices, and more to create a highly optimized supply chain capable of meeting the changing needs of today's consumers.

In the Logistics Performance Index, issued by the World Bank every two years, the Republic of Belarus took 103rd place in 2018, having risen by 17 positions compared to 2016. Poland ranked 28th, Lithuania – 54th, Ukraine – 66th, Russia – 75th.

In order to get closer to the result of the nearest countries, a number of innovations are required, for example:

1. Artificial intelligence (AI). AI solutions help analyze existing routes, identify bottlenecks and focus on the best route; this reduces both the time and the overall cost of warehousing and shipping. AI-powered data tools help capture real-time details related to the movement of goods and correctly estimate delivery times.

2. Internet of things (IoT). IoT makes it possible to optimize the operation of the fleet and ensures safety. IoT solutions provide significant assistance in driver tracking, reduce fuel costs, notify the client about the status of the transported cargo.

3. Outsourcing. There are very few outsourcing companies in the Republic of Belarus. In order to develop outsourcing in the Republic of Belarus, we consider it possible to eliminate a number of obstacles, such as reducing paperwork and creating outsourcing organizations within the state form of ownership.