

Збірник наукових праць ДНУЗТ ім. акад. В. Лазаряна. «Транспортні системи та технології перевезень». – 2021. – №21. – С. 60–67.

[2] Корнилов С. Н. Анализ методов оптимизации путевого развития станций [Текст]/ С. Н. Корнилов, К. М. Варжина. // Modern directions of theoretical and applied researches. – 2014.]. В роботі [Осокин О. В. Интеллектуальное сопровождение производственных процессов на железнодорожном транспорте [Текст]: автореф. дис. ... докт. техн. наук : 05.22.08 / Осокин Олег Викторович – Москва, 2014. – 46 с.

[3] The AnyLogic Company. AnyLogic: имитационное моделирование для бизнеса [Электронный ресурс] / The AnyLogic Company – Режим доступа до ресурсу: <https://www.anylogic.ru/>.

[4] Рахмангулов, А.Н. Особенности построения имитационной модели технологии работы железнодорожной станции в системе Anylogic [Текст] / А.Н. Рахмангулов, П.Н. Мишкурин // Сб. науч. Тр. SWorld. Матер. Медунар. Научно-практ. Конф. «Современные проблемы и пути их решения в науке, транспорте, производстве и образовании - 2012». – Одесса : Куприенко. – 2012. -Вып. 4, т.2. – С. 7-13

**UDC 656.212.5**

### **IMPROVING RAILWAY STATION INFRASTRUCTURE IN WARTIME**

*PhD (Tech.) G.V.Shapoval<sup>1</sup>, PhD (Tech.)H.I. Shelekhani<sup>1</sup>*  
*<sup>1</sup>Ukrainian State University of Railway Transport (Kharkiv)*

The transport sector of Ukraine in wartime is the main component of the economy. The transport infrastructure consists of railway system, road system, sea and river ports, airports. At present, the transport infrastructure is needed in reform. This will integrate Ukraine into the world transport network and become a regional transport hub for passenger and freight transport needs.

Solving the problems of further development of Ukraine in wartime is impossible without integration of transport infrastructure into the world market. Increasing the role of the transport sector ensures the vital activity of the population, the development of the country's economy, the preservation of the country's defense capability and the possibility of foreign economic relations.

The location of Ukraine between the countries of the West and the East ensured the passage of international transport corridors in its territory. This was the first step in integrating national transport systems into the world system. Ukraine's integration into the world economy was helping to increase the volume of international cargo flows. At the same time, martial law requires the development of measures to reduce the delivery time of goods. The growth in international trade and the nature of production linkages between individual countries call for an improvement in the quality of transport services provided in international traffic. The export of transport services is most advantageous for the state, as it is services that are sold, not raw materials or other material resources. It is necessary to create appropriate conditions for the implementation of these services. Further progress on this path depends on the success of the

objectives of the actual development of international transport corridors. However, rail border crossings remain a limiting element in the organization of the international cargo chain.

In view of this situation, it is necessary to further improve the infrastructure of the border railway stations located at the intersection of tracks 1520 mm and 1435 mm of adjacent States. Improvements in the infrastructure and technology of such stations will improve the efficiency of the transport process by reducing the international traffic at such stations. The improvement of the infrastructure and technology of border stations located at the intersection of different widths of the road is an urgent task in wartime conditions.

The aim of the work is to increase the efficiency of border stations in servicing international traffic flows located at the junction of tracks of different widths.

In order to achieve its objectives, the work should:

- study the organization of servicing of international wagon traffic at stations when the width of the track changes in wartime conditions;
- analyze the efficiency of using the existing station infrastructure in servicing international traffic flows;
- assess the features of the station's operation in cooperation with the state authorities when servicing export-import train traffic when changing the width of the track;
- develop a model for servicing international traffic flows at a border station when changing the width of the track;
- determine changes in the main parameters of the border station in the implementation of the proposed design solution;
- assess the economic effect of the implementation of the proposed design solution.

The obtained results can be used in substantiation of expediency of improvement of infrastructure and technology of work of stations located in places of meeting of paths of different width in wartime.