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Aleksander Ślادkowski *Editor*

Modern Trends and Research in Intermodal Transportation

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Current Issues of Multimodal and Intermodal Cargo Transportation

Velizara Pencheva, Asen Asenov, Aleksander Sladkowski, Boril Ivanov, and Ivan Georgiev

Abstract Freight transport is constantly growing and the forecast is that this trend will continue in the future. The sustainable development of transport requires the development of activities, which yield higher economic and social results while at the same time reduce the negative impact on the environment. In the long term, the sustainable development of transport activities is complex and tied to enormous challenges, difficulties and barriers, related to the development of the technological environment, the social and economic development, the influence of political factors and regulations. One of the central perspectives for the development of the freight transport in Europe is the development of multimodal and intermodal transport. The present chapter reviews some essential issues about the conditions for interaction between the modes of freight transport and the main challenges this kind of transport faces. An overview has been made of the main characteristics of organization and technology in multimodal and intermodal transport, and the related to them commodal and synchro modal transport that have appeared in recent years, as well as the physical internet concept. The application and barriers for modern use of information and communication technologies in multimodal and intermodal transport has been reviewed. An overview of the development of multimodal and intermodal transport in Bulgaria in accordance with the development of international transport

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