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SECURE AND SUSTAINABLE SUPPLY CHAIN MANAGEMENT: INTEGRATED ICT-SYSTEMS FOR GREEN TRANSPORT CORRIDORS

Gunnar Prause¹, Kristina Hunke²

Abstract. In the EU White Paper on Transport 2011 the emphasis was laid on green transport corridors, i.e. transshipment routes with concentration of freight traffic between major hubs and by relatively long distances of transport marked by reduced environmental and climate impact while increasing safety and efficiency with application of sustainable logistics solutions. Green transport is based on inter-modality and advanced ICT-systems improving traffic management, increase efficiency and better integrate the logistics components of a corridor. Until today only the first steps have been realised in the implementation of green corridor concepts, so that concrete requirements and frame conditions for ICT-systems of green corridors are described on conceptual basis. Baltic Sea Region (BSR) enjoys a vanguard position in the development and realisation of green transport concepts in Europe and some research projects delivered already the first results for the requirements of ICT-systems supporting green transport corridors. Of special importance is the EU initiative “East-West Transport Corridor (EWTC II)” since for the first time a green corridor manual has been presented formulating recommendations and requirements of green transport corridors to European level. The authors took part in some important green transport corridor initiatives around the Baltic Sea, including EWTC project, and were involved in related research activities. This paper aims at pointing out the current status and the future direction of ICT-systems for green transport corridors, especially under the viewpoint of secure and sustainable green corridor management.

Keywords: sustainable supply chain management, green transport corridors, ICT- systems, secure inter-modal logistics

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