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Title: **The method of logistics planning as evaluation of selected logistics processes**

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Keywords: logistics structure, logistics planning, logistics processes, supply chain, PL9A logistics planning method, LOGPLANNER application.

The dynamic changes in demand and supply observed at the beginning of the 21st century significantly influenced the globalisation and internationalisation processes of enterprises, resulting in the creation of new logistics structures. This dissertation examines and evaluates the logistics processes taking place in supply chains. An innovative approach to the evaluation of logistics processes is presented, based on the author's PL9A logistics planning method and the LOGPLANNER software application.

Chapter One presents the rationale for the dissertation on logistics planning, identifies the significance of the planning process and defines the role of this process in the management of supply chains. Based on a detailed analysis of the literature, commercially available planning methods, IT tools and the demonstrated gap in this area, Chapter Two formulates the thesis and the aim of the dissertation. Chapter Three presents the multidimensionality of the problem of logistics planning, results of literature research, characteristics of methods and tools used in planning processes. Based on literature knowledge and the author's professional experience, Chapter Four presents the model of the author's PL9A logistics planning method and illustrates the particular elements of this model. The issue of logistics process evaluation is presented in Chapter Five. The software implementation of logistical planning in the form of the author's LOGPLANNER application is presented in Chapter Six. The practical application of the author's PL9A logistics planning method and the IT application on a real supply chain is visualised in Chapter Seven, which also illustrates the results of the simulation studies. The obtained research results justified the purposefulness of the conducted theoretical and experimental research in the analysed subject and the application of the PL9A author's method in the evaluation of selected logistic processes allows to improve the quality of management of process-integrated supply chains. Consequently, the thesis set in the dissertation was proven and the aim of the work was fulfilled. The summary of the completed project, the applicability aspect of the PL9A logistics planning method and the directions for further research are presented in Chapter Eight.