

# Higher School for Insurance and Finance (VUZF University)

## REVIEW

by Prof. Dr. **Mariana Mateeva Petrova**  
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of dissertation for awarding the scientific degree „**Doctor**“  
in the field of higher education 3. Social, economic and legal sciences  
Professional field 3.8. Economics  
PhD program: „Finance, Insurance and Social Security“

**Author: Bogdan Cherniavskiy**

**Topic: Financial stimulation of the development of logistics activity in the construction industry of Poland**

### 1. General description of the presented materials

By order № 185 of 22.11.2021 of the Rector of the Higher School of Insurance and Finance Assoc. Prof. Dr. Grigoriy Vazov I was appointed as a member of the scientific jury for providing a procedure for defense of a dissertation on the topic of **Financial stimulation of the development of logistics activity in the construction industry of Poland** for obtaining the educational and scientific degree "Doctor" in the field of higher education 3. Social, economic and legal sciences, Professional field 3.8. Economics, PhD program "Finance, Insurance and Social Security". The author of the dissertation is **Bogdan Cherniavskiy**.

The materials submitted by **Bogdan Cherniavskiy** include documents according to the presented inventory: reference for the scientific and scientific-applied contributions in the dissertation; dissertation work; autoreferate. The doctoral student has attached a list of 11 publications on the topic of the dissertation.

### 2. Short biographical data for PhD student.

**Bogdan Cherniavskiy** graduated with a Master's degree in "Economics" in the Kherson State Agrarian University, Kherson, Ukraine. They work in management positions in key companies with a wide range of activities.

### 3.Relevance of the topic and expediency of the set goals and objectives

The formulated topic is dedicated to a relevant and significant for modern conditions economic problem: the theoretical and practical aspects of the functioning of the logistics system in order to

increase the financial and economic competitiveness of logistics companies in various sectors of the economy.

The research thesis models the logic of the dissertation research and the applied analytical tools.

The dissertation is structured in accordance with the set goal, hypotheses and the subject of the research and reflects the author's approach to the researched topic.

#### **4. Knowledge of the problem**

**Bogdan Cherniavskiy** shows a thorough and objective formulation and evaluation of the problems explored in the dissertation. 253 literary and internet sources of specialized scientific literature in different languages, normative documents were used and analyzed.

The used literature is directly related to the developed issues. It is cited correctly and the rules of scientific ethics are respected.

#### **5. Research methodology**

For the realization of the set goal and for the solution of the research tasks theoretical and empirical methods of research, methods for modeling and forecasting are used, which form the basis for the use of modeling in logistics.

#### **6. Characteristics and evaluation of the dissertation**

**The dissertation** consists of an introduction, presentation formed in three chapters, conclusions, literature, 4 appendices. The development is in a total volume of 193 pages (163 pages without appendices and bibliography), 14 tables and 43 figures are presented, 253 are the used literary and internet sources.

**The object** of the study is the process of influence of logistics on increasing the economic efficiency and functioning of the construction business.

**The subject** of the dissertation covers the theoretical, methodical and practical aspects of the organization of the system of financial incentives for logistics as one of the key factors for ensuring the effective development of construction in Poland.

**The goal** of the dissertation is the substantiation of a complex strategy, mechanisms and instruments for financial stimulation of the development of the national logistics system in the construction industry of Poland.

According to the set goals in the dissertation the following tasks are formulated:

- to study the theoretical and methodological bases for effective development of logistics in the construction business, and to show the role of financial incentives and its development;

- to analyze the factors and prerequisites for effective development of the Polish transport and logistics system, to assess the current state, as well as the level and quality of logistics services in the construction industry;

- to determine the main directions, the research mechanisms and to substantiate the effective instruments for financial stimulation of the development of the national logistics system in the construction industry of Poland;

- to develop and propose for implementation a method for prioritizing the choice of instruments for financial stimulation of development in the construction industry at the regional level, assessing the transport-logistics and financial-investment potentials of the region.

The objective set is significant for the economic system and the resolution of tasks ensures that it is achieved.

The first chapter "**Theoretical and methodological foundations of effective development in the field of logistics in construction**" reveals the essence of the logistics system: the theoretical foundations of its effective development are determined; the importance and role of logistics as a strategic tool for the development of the construction industry is substantiated. The methodological approaches for determining the efficiency of the logistic processes and assessments of the financial stimulation in the construction activity are studied.

Summarizing the above in the three paragraphs, at the end of the first chapter the author concludes that the use of logistics in construction is able to both increase the advantages and significantly offset the existing shortcomings. And these potential opportunities arise directly from the very nature of logistics, the toolkit that is designed to achieve connectivity and synergy in the financial and economic interests of all participants in the construction business, reflected primarily in the system of indicators and their activities.

In the second chapter "**Analysis of the modern development of the logistics system in Poland**" research is focused on assessing the factors and prerequisites, the current state of development in the Polish logistics system. The diagnostics of the influence in the modern logistic approaches for the development of the construction industry has also been made.

The analysis at the end of the second chapter summarizes that the transport and logistics potential of Poland is represented by all modes of transport, necessary elements of the linear and point infrastructure with positive dynamics of development, which in turn determines the effectiveness of related industries of the national economy, including the construction sector in the economy.

Skillful handling of research tools is observed. The information is analyzed in many ways.

The third chapter of the dissertation reveals the role and importance of state support for the development of the logistics and construction industries in the Polish economy; the financial support for the implementation of technological innovations for the effective development of the national sphere of logistics and supply network are studied, an organizational and managerial model for increasing the

efficiency of development in the construction business based on the selective choice of tools for financial incentives are proposed.

The dissertation focuses on the fact that the support of the Polish government for the development of the domestic transport and logistics system is becoming a priority, as this industry is able to generate a significant increase in gross domestic income in the state budget and become one of the main sources for ensuring the competitiveness of the state.

The dissertation proposes the introduction of an organizational and managerial model for the selection of financial instruments to stimulate the development of the construction industry. The model is based on an author's matrix for the selection of instruments for financial incentives at the regional level. The proposed methodology, based on a comparative assessment of the transport-logistics and financial-investment potential, is aimed at a reasonable choice of specific instruments for financial support, as well as increasing the level of return on their application in the regions of Poland.

The financial instruments that are recommended to be used to stimulate business activity in the construction sector are grouped according to the nature of their impact on the construction business. The total set of all instruments is divided into Group A (Instruments for Direct Financial Incentives), Group B (Instruments for Direct and Indirect Financial Incentives), Group C (Instruments for Indirect Financial Assistance).

The practical value of the proposed model is focused on the possibility of its use in the development and implementation of financial and economic strategies for the development of regions and the construction sector of the economy as a whole.

Guidelines and recommendations are given for the practical use of the methodology based on the interrelationships between its individual components.

The depth of the conclusions accompanying each chapter, as well as the justification of the general conclusions and the proposals made, by which the scientific thesis is proven, is noticeable.

## **7. Contributions and significance of development for science and practice**

The acquaintance with the dissertation allows to assess that the goal of the research has been achieved, and the tasks arising from it have received adequate solutions. As a consequence, the belief is formed in me that in the dissertation there is enough evidence for scientific and applied contributions.

I accept the scientific and scientific and applied results formulated by the author:

### **A. Scientific results**

1. Substantiated and proposed organizational and management structure of the logistics system in construction, taking into account the specifics of the relationship of all related and interconnected

entities, reflecting all logistics processes and management functions given coordination of activities of all participants in the supply chain;

2. The properties of the logistics system are defined and supplemented, which is an artificial, complex, open, technical-technological, ecological, socio-economic, spatial-time system for optimization modeling the delivery of the exact goods at the right time for the specific user;

3. The role of logistics has been identified and assessed as one of the key organizational and stimulating factors in the field of services: in a broad sense or at the macro level, which is presented as a set at the level of national and / or global economies; in a narrow sense, or at the meso-level, logistics plays a leading role in increasing the efficiency and ordering of the territorial-local economy.

### **B.Scientific and applied results.**

1. Proposed a set of methodological recommendations for assessment of the transport-logistical and financial-investment potentials, which allows to assess the quantitative and qualitative availability of basic conditions for the development of the construction industry in the region;

2. Developed an organizational and managerial model for increasing the efficiency in the development of the construction business on the basis of the selective choice of instruments for financial stimulation;

3. For practical implementation - proposed a matrix of management decisions on the choice of priority instruments for financial stimulation of development in the construction sector of the economy, based on an integrated assessment of the transport-logistics and financial-investment potentials of the regions.

## **8. Evaluation of dissertation publications**

The results of the research on the topic of the dissertation are correctly presented to the scientific community with 11 scientific publications, independently and in co-authorship. They are an indicator of the deep scientific interests of the doctoral student, as well as that the scientific contributions to the dissertation are the personal work of the doctoral student. All publications (except those published in Bulgaria) are published mainly in local publications, collective monographs and conference proceedings, there are no publications in established international journals with IF / IR.

The attached publications are mostly published in conference proceedings, 2 publications are in print and 7 are in the nature of theses.

Two articles in collective monographs are presented, one published in the publishing house in VUZF, Bulgaria. It is a pleasant impression that the candidate has published some of his peer-reviewed publications in Bulgarian publishing houses - VUZF.

The publications reflect the achievements of the dissertation obtained in the course of research.

It hasn't come to my attention that the results of the study in the dissertation work have been cited by other authors.

Separation protocols for joint publications have not been submitted.

### **9. Assessment of the applicant's personal contribution**

The presented dissertation on the topic „**Financial stimulation of the development of logistics activity in the construction industry of Poland**“ is a conscientious scientific and applied research.

I have no doubt about the personal contribution of the doctoral student, expressed in in-depth research, creative thinking and further development of the theory and the problem solved in the work, namely studying and developing the theoretical and practical aspects of the functioning of the logistics system, in order to ensure increasing the financial and economic competitiveness of logistics companies in various sectors of the economy.

### **10. Autoreferate**

The autoreferate consisting of 29 pages has been prepared in accordance with the requirements of LDAS and RILDAS. It is structurally correct and properly reflects the logic and consistency and contributions of the dissertation. It demonstrates the skills of **Bogdan Cherniavskiy** to synthesize and summarize in order to present her most important ideas and conclusions.

### **11. Critical comments and recommendations**

The answer to the following question is also interesting: Would the conclusions of the work change due to the impact of the Covid-19 pandemic?

The scientific work presented clearly shows the professionalism, good theoretical training and proven opportunities for further research.

It is recommended that the research of the PhD student continue in the future on the researched issues and their results are published in indexed and peer-reviewed international scientific publications, for which the PhD student has extensive practical experience and scientific potential.

### **12. Personal impressions**

I do not know the doctoral student personally. We do not have joint publications and developments.

My impressions come from the dissertation, author's autoreferate and dissertation publications. They show a serious and erudite researcher, a bona fide scientist with an extensive theoretical background and proven ability for independent research.

## CONCLUSION

The dissertation contains scientific, scientific-applied and applied results, which represent an original contribution to science and meet all the requirements (s) of LDASRB and RILDASRB. The presented materials and dissertation results correspond to the specific requirements of the Regulations for admission and training of doctoral students at the Higher School of Insurance and Finance.

The dissertation shows that **Bogdan Cherniavskiy** has in-depth theoretical knowledge and professional skills in Professional field 3. 8. Economics, demonstrating qualities and skills for independent research.

Due to the above, I give my positive assessment of the research presented by the above-reviewed dissertation, autoreferate, results and contributions, and I invite the scientific jury to award the educational and scientific degree "Doctor" to **Bogdan Cherniavskiy** in the field of higher education 3. Social, economic and legal sciences; Professional field 3. 8. Economics; PhD program "Finance, Insurance and Social Security".



04.01.2022 г.

REVIEWER:.....

**Prof. Dr. Mariana Petrova**