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NORDIC INTERNATIONAL UNIVERSITY

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**IMPROVEMENT OF SUPPLY CHAIN MANAGEMENT MECHANISM
(in the case of dehkans and homesteads)**

08.00.13 – Management

ABSTRACT

Doctor of philosophy (PhD) dissertation in economic sciences

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The topic of PhD dissertation is registered under number B2024.2.PhD/Iqt.4239 with the Higher attestation commission.

The dissertation was carried out at the International Nordic University.

The abstract of the thesis is posted in three languages (Uzbek, Russian, English (resume)) on the website of the Scientific Council (www.nordicuniversity.org) and at the Information and Educational portal "ZiyoNet" (www.ziynet.uz).

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INTRODUCTION

(annotation of Doctor of Philosophy (PhD) dissertation)

The purpose of the research is to develop scientific and practical recommendations and proposals for improving the supply chain management mechanism.

The tasks of the research are as follows:

study of scientific and theoretical foundations of formation of supply chain and mechanisms of its management;

determine the current situation and features of management of supply chain of fruit and vegetable products;

analysis of product losses arising in supply chain of fruit and vegetable products;

determine factors influencing product losses in supply chain and determine ways of their elimination;

econometric modeling of socio-economic problems of development of dehqan and household farms in management of supply chain of fruit and vegetable products and ways of their solution;

analysis of prospective situation of use of effective factors of mechanism of management of supply chains of fruit and vegetable products.

The object of the study is the activities of farmers and households in the supply chain

The subject of the research is the organizational and economic relations that occur in the supply chain.

The methods of the research Scientific observation, statistical analysis, SEM (Structural Equation Modeling) model, PCA (Principal Component Analysis) model, questionnaire, selective observation and interview methods were used in the research.

The scientific novelty of the research is as follows:

based on the methodological approach, the content of existing principles of supply chain management and operational management in production is improved in accordance with their strategic direction so that organizations can achieve operational excellence by increasing efficiency, cost and profitability;

scientifically based values for assessing the impact of total income on losses by combining local post-harvest, storage and transportation losses in the fruit and vegetable supply chain under one index using Principal Component Analysis;

in order to increase the income of the participants of the first link of the supply chain, the sale of goods that are compatible with the characteristics of the first contract concluded between the microfinance organization and the client within the framework of the second salam contract concluded with a third party, and payments for goods delivered in the future based on the proposal to improve the mechanism of financing by advance payment by the microfinance organization;

on the basis of econometric modeling of the dynamics of sustainable development of the supply chain management in Uzbekistan, forecast indicators of increasing the volume of production until 2030 have been developed.

The practical results of the dissertation are as follows:

based on a methodological approach, the content of the existing supply chain management and operational management principles in production is improved according to their strategic direction, so that organizations can achieve operational excellence by increasing efficiency, value and profitability. This theoretical information was used in the preparation of a textbook on "Logistics" recommended for students of a higher educational institution;

values for assessing the impact of total income on losses by combining post-harvest, storage and transportation local losses in the fruit and vegetable supply chain under one index using the method of principal components (Principal Component Analysis) are scientifically based. Through this, product losses were reduced by 2 percent;

in order to increase the income of the participants of the first link of the supply chain, the sale of goods that are compatible with the characteristics of the first contract concluded between the microfinance organization and the client within the framework of the second salam contract concluded with a third party, and payments for goods delivered in the future advanced financing mechanism by microfinance organization. According to this, the economic situation of product producers has increased by 0.253 units;

On the basis of econometric modeling of the dynamics of sustainable development of the supply chain management in Uzbekistan, forecast indicators of increasing the volume of production until 2030 have been developed. Accordingly, it is expected to increase the volume of products by 12 percent.

Reliability of research results. The reliability of the methodological approach and methods used in the research is determined by the fact that the information base is from official sources, the conclusions and proposals have been tested in practice, and the obtained results have been approved by the competent state management body.

Scientific and practical significance of the research results. The scientific significance of the research results is determined by the possibility of using them in the development of regional programs for the development of supply chain activities in Uzbekistan and the improvement of its management mechanisms, increasing the role of management in socio-economic development, and eliminating product losses in the supply chain.

Implementation of research results. based on a methodological approach, for organizations to achieve operational excellence by increasing efficiency, value and profitability, the content of the existing supply chain management and operational management principles in production, from theoretical information on improvement according to their strategic direction, for students of higher education

institutions used in the preparation of the recommended textbook on the subject of "Logistics" (Order No. 356 of the Ministry of Higher and Secondary Special Education of the Republic of Uzbekistan dated August 18, 2021). As a result of the implementation of this scientific proposal, it is possible to increase efficiency in organizations, target distribution of resources, improve cooperation, strategic adaptation, continuous improvement, and expand theoretical and methodological knowledge on logistics and supply chain management;

proposals on the scientific justification of values for assessing the impact of total income on losses by combining local post-harvest, storage and transportation losses in the fruit and vegetable supply chain under one index using the method of principal components (Principal Component Analysis) It was put into practice by the Chamber of Commerce and Industry of Uzbekistan (Reference No. 11/03-15-8242 dated October 6, 2021 of the Chamber of Commerce and Industry of Uzbekistan). As a result of the implementation of this proposal, the methods of development and application of the local loss index within the country were shown, and product losses were reduced by 2 percent;

in order to increase the income of the participants of the first link of the supply chain, the sale of goods that are compatible with the characteristics of the first contract concluded between the microfinance organization and the client within the framework of the second salam contract concluded with a third party, and payments for goods delivered in the future The proposals made by the microfinance organization on improving the mechanism of financing through advance payment were put into practice by the Chamber of Commerce and Industry of Uzbekistan (Decision of the Chamber of Commerce and Industry of Uzbekistan dated October 6, 2021 11/03-15-8242- reference number). As a result of the introduction of this scientific innovation, the economic status of product producers has increased by 0.253 units.

Based on econometric modeling of the dynamics of sustainable development of supply chain management in Uzbekistan, the proposals on the development of forecast indicators for increasing the volume of production until 2030 have been introduced into the practice of the Chamber of Commerce and Industry of Uzbekistan (Chamber of Commerce and Industry of Uzbekistan Reference No. 11/03-15-8242 of October 6, 2021). The use of these forecast indicators will lead to a 12 percent increase in the volume of product production in 2030 compared to 2023.

Approval of research results. The results of this research were discussed and presented at 6 international scientific and practical conferences and 7 national scientific and practical conferences.

Publication of research results. A total of 19 scientific works on the topic of the dissertation, including 8 articles in scientific publications, 8 in the republic, 3 in foreign journals, were published in scientific publications recommended for publication of the scientific results of doctoral dissertations of the Higher

Attestation Commission of the Republic of Uzbekistan.

The structure and scope of the dissertation. The dissertation consists of an introduction, three chapters, conclusions and suggestions, a list of used literature and appendices, and its volume is 131 pages.