Electronic scientific and practical journal INTELLECTUALIZATION OF LOGISTICS AND SUPPLY CHAIN MANAGEMENT





WWW.SMART-SCM.ORG ISSN 2708-3195 DOI.ORG/10.46783/SMART-SCM/2023-17





Electronic scientific and practical publication in economic sciences

Electronic scientifically and practical journal "Intellectualization of logistics and Supply Chain Management" included in the list of scientific publications of Ukraine in the field of economic sciences (category "B"): Order of the Ministry of Education and Culture of Ukraine dated October 10, 2022 No. 894 (Appendix 2)

Field of science: Economic.

Specialties: 051 – Economics; 073 – Management

ISSN 2708-3195

DOI: https://doi.org/10.46783/smart-scm/2023-17

The electronic magazine is included in the international scientometric databases: Index Copernicus, Google Scholar

Released 6 times a year

Nº 17 (2023) February 2023 Founder: Viold Limited Liability Company

Editor in Chief: Hryhorak M. Yu. – Doctor of Economics, Ass. Professor.

Deputy editors-in-chief: Koulyk V. A. – PhD (Economics), Professor.

Marchuk V. Ye. - Doctor of Tech. Sci., Ass. Professor.

Technical editor: Harmash O. M. – PhD (Economics), Ass. Professor. **Executive Secretary**: Davidenko V. V. – PhD (Economics), Ass. Professor.

Members of the Editorial Board:

SWIEKATOWSKI Ryszard – Doctor of Economics, Professor (Poland);

POSTAN M. Ya. – Doctor of Economics, Professor;

TRUSHKINA N. V. – PhD (Economics), Corresponding Member of the Academy;

KOLOSOK V. M. – Doctor of Economics, Professor;

ILCHENKO N. B. – Doctor of Economics, Ass. Professor;

SOLOMON D. I. – Doctor of Economics, Professor (Moldova);

ALKEMA V. H. – Doctor of Economics, Professor;

Henryk DŹWIGOŁ – PhD (Economics), Professor (Poland);

SUMETS O. M. – Doctor of Economics, Ass. Professor;

STRELCOVÁ Stanislava – PhD (Economics), Ass. Professor, (Slovakia);

RISTVEJ Jozef (Mr.) PhD (Economics), Professor, (Slovakia);

ZAMIAR Zenon – Doctor of Economics, Professor, (Poland);

SMERICHEVSKA S. V. – Doctor of Economics, Professor;

GRITSENKO S. I. – Doctor of Economics, Professor;

KARPENKO O. O. – Doctor of Economics, Professor;

PATKOVSKYI S. A. – Business practitioner.

The electronic scientific and practical journal is registered in international scientometric data bases, repositories and search engines. The main characteristic of the edition is the index of scientometric data bases, which reflects the importance and effectiveness of scientific publications using indicators such as quotation index, h-index and factor impact (the number of quotations within two years after publishing).

In 2020, the International Center for Periodicals (ISSN International Center, Paris) included the Electronic Scientific and Practical Edition "Intellectualization of logistics and Supply Chain Management" in the international register of periodicals and provided it with a numerical code of international identification: ISSN 2708-3195 (Online).

Recommended for dissemination on the Internet by the Academic Council of the Department of Logistics NAU (No. 7 of February 26, 2020). Released 6 times a year. Editions references are required. The view of the editorial board does not always coincide with that of the authors.

Electronic scientifically and practical journal "Intellectualization of logistics and Supply Chain Management" included in the list of scientific publications of Ukraine in the field of economic sciences (category "B"): *Order of the Ministry of Education and Culture of Ukraine dated October 10, 2022 No. 894 (Appendix 2)*

Field of science: Economic.

Specialties: 051 – Economics; 073 – Management

t.me/smart_scm facebook.com/Smart.SCM.org twitter.com/ScmSmart

тел.: (063) 593-30-41 https://smart-scm.org

DOI: https://doi.org/10.46783/smart-scm/2023-17

e-mail: support@smart-scm.org

Contents

BUGAYKO D.O. Doctor of Science (Economics), Professor (Associate), Corresponding Member of the Academy of Economic Sciences of Ukraine, Vice - Director of ES International Cooperation and Education Institute, Instructor of ICAO Institute,	
Professor of the Logistics Department National Aviation University (Ukraine),	
REZNIK V. V. Postgraduate Student, National Aviation University (Ukraine), BORYSIUK A.V. Vice – Director of ICAO Institute Postgraduate Student National Aviation University (Ukraine), BUGAYKO D.D. Student of the Logistics Department National Aviation University (Ukraine)	
TRANSFORMATION OF THE ORGANIZATION OF MULTIMODAL TRANSPORTATION UNDER MARTIAL LAW 6 – 2	22
SAVCHENKO L.V. PhD of Technical Sciences, Associate Professor, Associate Professor of Logistics Department of National Aviation University (Ukraine), TSAPENKO O.A. Bachelor degree student, National Aviation University (Ukraine) INTERRELATION OF EXTERNAL COSTS OF ROAD TRANSPORT AND FINANCIAL AND LOGISTICS INDICATORS OF THE EU COUNTRIES	- 34
GRYTSENKO S.I. Doctor of Economics, Professor, Professor of Logistics Department, National Aviation University (Ukraine), HRECHKOVSKA A.I. Bachelor degree student, National Aviation University (Ukraine), KORDYAK M.O. Bachelor degree student, National Aviation University (Ukraine) DEVELOPMENT OF INTELLIGENT TRANSPORT SYSTEMS OF UKRAINE 35 -	- 42
OVDIIENKO O.V. PhD Student, Marketing Department, National Aviation University (Ukraine)	
THEORETICAL AND PRACTICAL ASPECTS OF CORPORATE SOCIAL RESPONSIBILITY TOOLS USAGE BY AVIATION COMPANIES	-56
REVIEW	50
AREFIEVA O.V. Review for a scientific monograph Doctor of Sciences (Economics) Yurii Kharazishvili, Doctor of Sciences (Economics) Dmytro Bugayko, Doctor of Sciences (Economics) Viachyslav Lyashenko "Sustainable development of air transport of Ukraine: strategic scenarios and institutional support", prepared at the Institute of Industrial Economics of the National Academy of Sciences of Ukraine 57 -	- 59
HRYHORAK M.Yu. Review for a scientific monograph Doctor of Sciences (Economics) Yurii Kharazishvili, Doctor of Sciences (Economics) Dmytro Bugayko, Doctor of Sciences (Economics) Viachyslav Lyashenko "Sustainable development of air transport of Ukraine: strategic scenarios and institutional support", prepared at the Institute of Industrial Economics of the National Academy of Sciences of Ukraine 60 -	_ 62

Reviewer

Mariia HRYHORAK

Doctor of Sciences (Economics), Associate Professor, Senior Researcher V. M. Glushkov Institute of Cybernetics, National Academy of Sciences of Ukraine.

REVIEW

for a scientific monograph Doctor of Sciences (Economics) Yurii Kharazishvili, Doctor of Sciences (Economics) Dmytro Bugayko, Doctor of Sciences (Economics) Viachyslav Lyashenko

"SUSTAINABLE DEVELOPMENT OF AIR TRANSPORT OF UKRAINE: STRATEGIC SCENARIOS AND INSTITUTIONAL SUPPORT",

prepared at the Institute of Industrial Economics of the National Academy of Sciences of Ukraine

Ukraine is an aviation state in which the full cycle of development, serial production, operation, technical support of aviation equipment, aircraft engines, avionics and training/retraining of aviation specialists is ensured. At the same time, a key aspect of the activity is ensuring a high level of security, since not only the preservation of life and health of people, property, but also the provision of economic stability, social standards and environmental safety depends on this decision. Therefore, the safe development of aviation transport is a priority on the way to sustainable development of the national economy. The latter necessitated the development of a new paradigm of socio-economic development of air transport.

The authors of the monograph highlight the main principles of the concept of sustainable development, which indicate the need for the interconnection of three components: economic, social and environmental on the way to overcoming global problems. In this context, technologies can contribute to the achievement of goals in all three dimensions of sustainable development, the balance of which occupies one of the leading places among the problems of sustainable development not only of individual countries or regions, but also of the world as a whole.

The authors considered the theoretical foundations and determined the economic significance of the strategic management of air transport safety and its role in promoting the sustainable development of the national economy. On the basis of the mentioned conceptual approaches, an organizational and economic mechanism of consistency of the strategic management of the safety of the development of air transport with the Sustainable Development Goals has been developed, of which the 17 Sustainable Development Goals of the UN Agenda for

2030 can be used as guidelines for creating proper conditions for the safe functioning of the aviation sector in countries - UN members.

In the course of the study, it was proved that the basis of achieving the goals of the sustainable development of aviation transport is the strategic management of safety, as an integral characteristic of the state of the economic system of the industry. The level of social and environmental components, as well as the level of the security and defense sector, depends on its level in a certain way.

The methodological principles of identifying the level of sustainable development of aviation transport in terms of safety are given and we propose the concept of sustainable development as a management structure containing a general systemic idea of the ways of transition from the current position of the management object to the desired one. The authors offer a structure and system of indicators. Out of 29 indicators, 18 (62%) are in the critical threat zone, 6 are in the crisis zone, and only 5 indicators are in the optimal zone. Modeling of the dynamics of the integral indicators of the components of the air transport of Ukraine in comparison with the integral threshold values was also carried out.

The opinion of the authors is correct that the development of the concept of sustainable development of air transport requires the interaction of various experts: aviation, security, economic cybernetics, macroeconomists, sociologists, ecologists and politicians.

The authors considered the issue of identifying threats according to the concept of "risk" of air transport, theoretical justification of the list and weight of the impact of air transport threats using the method of imbalances, theoretical approaches to measuring the level of safety - the test of the coefficient of the sequence of probabilities and the fractal-statistical analysis of the air transport safety management system. It was determined that in the system of risk management, the threat has the maximum potential energy, capable of directly harming the air transport sector in particular and indirectly causing negative consequences for the course of sustainable development of the national economy in general. To determine the list of threats according to the "imbalance method", two criteria were used: according to the distance from the point of sustainable development - the average value of the "homeostatic plateau" (the list and importance of the threats will be determined) and according to the severity of the impact by calculating the elasticity coefficients (the degree of influence of the threats will be determined). At the same time, the authors pointed out the insufficient attention of scientists to the definition of the dynamics of the integral index of air transport and its comparison with the integral threshold values, first of all, to the complete disregard of shadow indicators. The latter significantly affect the final indicator, because, according to experts, more than a third of GDP is the shadow sector. It was found that the biggest threats to the sustainable development of air transport are "shadow" indicators, without improving which achieving the level of sustainable development is impossible not only for air transport, but also for Ukraine as a whole.

Based on the obtained results, strategic scenarios for the sustainable development of air transport of Ukraine were determined based on selected indicators for each of the listed components. The result of the implementation of the concept of sustainable development to solve the tasks of strategic management of air transport safety was the definition of strategic scenarios for the sustainable development of air transport of Ukraine in terms of safety for the period up to 2030 in three scenarios: realistic, which ensures a 3.8% annual increase in air traffic, optimistic - 7 .0% increase in VAT; of balanced sustainable development – 11.6% of GVA growth. For each of these options, scientifically based quantitative values of indicators and strategic benchmarks of key macro-indicators of air transport are determined, monitoring of which allows objectively establishing the effectiveness of the relevant government policy. At the same time, based on the results of the calculations, the authors conclude that the greatest effect of sustainable development can be achieved by applying the scenario of full balance - equidistant integral indices of development components from their average optimal values.

The authors provided institutional support for the strategic management of air transport safety at the level of state regulation, at the level of interaction between the state and airlines of Ukraine, and at the level of interaction between the state, airports and the entire aviation logistics ecosystem of Ukraine.

The monographic work is a complete and complete study of the extremely urgent problem of ensuring the sustainable development of air transport in Ukraine in today's crisis conditions. The strategic scenarios of sustainable development of the industry outlined by the authors, based on in-depth analytical research, will be accepted by the scientific community, heads of aviation regulatory bodies and aviation enterprises, scientists and specialists in related fields.