

REVIEW

for the dissertation work of a graduate student Yu Zhijiang on the topic "Development of the sports industry in the conditions of geo-economic challenges", which is presented for obtaining the degree of Doctor of Philosophy in specialty 073 "Management".

Nowadays, the China's sports industry is facing difficulties such as the low degree of modernization of the industrial system, the slow evolution of the rationalization of the industrial structure, the unreasonable external structure of the sports industry, and the serious dependence on the path of industrial development. National strategies such as the Belt and Road Initiative and Made in China 2025 have further accelerated the upgrading of China's sports industry which from the low end of the global value chain to the middle and high end.

However, the upgrading of China's sports industry structure and the continuous improvement of industrial competitiveness will inevitably touch and erode the global monopoly profits of the developed countries with high productivity.

Therefore, under the impact of the restructuring of industrial chains, supply chains, and value chains triggered by against the backdrop of anti-globalization, trade protectionism, and especially the new crown pandemic, China's sports industry has to suffer from geo-economic shocks represented. Therefore, from the perspective of geo-economy and industrial development, China's sports industry is faced with a double attack of the high-end blockade and low-end lock. Even nowadays, in the most core areas such as finance, trade, science, and technology, China's sports industry has to face barriers and challenges almost everywhere. Therefore, under this background, it is necessary to conduct a further in-depth examination of the development of China's sports industry from the perspective of geo-economics, and then propose targeted development strategies.

Characterizing the structure and content of the reviewed dissertation, one should note that the work contains an introduction, three main sections, conclusions, a list of references and appendices. A brief description of the work's main content and the research results are presented in the abstract. The main text of the work is laid out on 168 pages, which also contains 28 tables and 9 figures, which complement the presentation of the author's text and illustrate the obtained scientific results. The research used a significant number of scientific sources – 175, which testifies to the validity and reliability of the obtained results.

The introduction to the dissertation contains an overview of the relevance and main elements of scientific research: goals, tasks, object and subject, and research methods. The introduction also describes the author's scientific results and their practical significance.

In the first chapter of the study, it was established that compared to Western developed countries, the current development of China's sports industry is still in its initial stage. This section particularly focuses on the selection and formation of international competitiveness of China's sports industry under the new geographical

economic model.

In the second chapter of the study, an index assessment of the international competitiveness of China's sports industry is built, which, unlike the existing ones, is built on the basis of the standard deviation and the coefficient of variation of the ranking of geo-economic factors of choice. Based on the index system for evaluating the international competitiveness of China's sports industry from the point of view of geoeconomics, the group method of making complex decisions (AHP - Analytic Hierarchy Process) was used in the study to process the source information. The result of using this method was the justification of a group decision on the strategic development of the sports industry in conditions of uncertainty and multicriteria.

In the third chapter of the study, the author proposed the following directions for the development of the sports industry, among the main ones: the continuation of active integration into the geo-economic strategy of the country, the desire to seize the prevailing heights in economic development, the continuation of promoting the liberalization of trade and cooperation, increasing investments in high-class innovations in the field of sports goods production, company building, financial innovations, etc.

The study proved that the level of development and pace of modernization of the production of sports goods is the same as the level and pace of the entire sports industry in China. The "growth pole" effect of the sports goods industry can effectively promote the overall high development of the sports industry as a whole and finally form a modern sports industry system that integrates the development of fitness recreation and competition, high-quality manufacturing and modern service industry. This will contribute to the transformation of China from a great sports country to a true sports power.

The conclusions summarize the obtained results, illustrating their relationship with the tasks and the goal of the research. The language and style of the work meet the requirements of the scientific kind.

The dissertation research was conducted within the framework of the projects Fujian Province Social Science Planning Project No. FJ2022B023; Henan Social Science Federation Research Project No. SKL-2022-2344.

The scientific novelty of the obtained results lies in the deepening of the existing theoretical provisions and the development of scientific-practical and methodical recommendations for the development of China's sports industry in the conditions of geo-economic challenges.

Based on the existing theoretical provisions and the development of scientific-practical and methodical recommendations, the following provisions were obtained, which have the status of scientific novelty:

first:

the conceptual theoretical and methodological foundations of the development of China's sports industry from the point of view of meeting the country's internal needs and protecting its national economic, political, and cultural security are substantiated in order to promote the implementation of China's geo-economic development strategy;

formulated axiological characteristics of geoeconomic problems (contradictions) of the development of the sports industry, which are based on adaptation to the new international geoeconomic model, determination of the needs of the global value chain and industrial division of labor, in order to form priority sports industries;

improved:

system for assessing the level of international competitiveness of China's sports industry, which, in comparison with existing practice, is based on the use of the FCE method and geo-economic factors of influence, in order to determine the advantages of priority areas of the sports industry;

methodical approach to the index assessment of the international competitiveness of China's sports industry, which, unlike the existing ones, is built on the basis of the characteristics of the coefficient of variation, standard deviation and ranking of geo-economic factors of choice, which allows to form complex characteristics regarding the indicators of the first and second level of influence;

criterion measures and a system for evaluating the international competitiveness of China's sports industry from the point of view of geoeconomics, based on the application of group decision-making techniques (AHP - Analytic Hierarchy Process), in order to determine the sectoral vectors of the strategic development of the sports industry in conditions of uncertainty and multicriteria;

to be further developed:

theoretical generalization of the types of methods and methods of ensuring the international competitiveness of China's sports industry based on the formation of a system of strategic positioning of the industry, which will allow timely diagnosis of problems and provide stimulation of the progressive development of China's sports industry;

the conceptual and categorical apparatus of the theory of the development of the sports industry due to the deepening of the essence of such concepts as:

"sports industry" provided that it is considered as a set of industries for the production of sports goods, construction of sports infrastructure, the industry of sports competitions, sports fitness and the industry of recreation, sports tourism, which makes it possible to apply a systematic approach to the study of geo-economic problems of the functioning of the international competitive environment and the justification of the most priority spheres of the sports industry;

"international competitiveness of the sports industry" from the point of view of geo-economic challenges and its division into realistic and potential, which allows determining target orientations, the efficiency of resource allocation and the ability of the sports industry to structural transformation;

scientific substantiation of the main challenges and threats to the development of the sports industry, based on taking into account the state of development and the structure of the sports goods industry, which will contribute to the active integration of the industry strategy into China's geo-economic strategy, the liberalization of international trade and the promotion of cooperation;

the formation of a modern toolkit for ensuring the progressive development of the sports industry, based on a stimulating component, which allows making appropriate changes in the strategic forecast for the distant perspective of the

development of the sports industry in China in the conditions of the formation of a new international geo-economic model.

The scientific and practical significance of the dissertation. While enriching the content system of geo-economics, this research also builds a bridge between geo-economic theory and geo-economic practice to improve the application value of geo-economic theory. Since the core value of the development of the sports industry from the perspective of geo-economics is to serve the national geo-strategy, this research has high strategic value. This research can not only have high value in the development of the sports industry itself and China's national economy, but also fully safeguard national interests other than the economy and feed back the implementation of China's geo-economic strategy. The research results of this paper have practical application value.

Complete presentation of the main results of the dissertation. The main results of the thesis are presented in 4 specialized scientific publications of Ukraine, 1 publication in the Web of Science Core Collection and/or Scopus databases, 1 Article in periodical international scientific publications, and 9 scientific conference reports.

The main provisions and results of the dissertation research were made public by the author at conferences, seminars, meetings, among which the most important The main results of the research were examined at international conferences were: III International Research and Practice Conference “Innovations of partner cooperation of education, economy and social defense in the conditions of inclusion and pragmatic rehabilitation of society”, (Podilsky, Ukraine, 2019); V International Scientific and Practical Conference of young scientists and students “Modern management: trends, problems and development prospects”,(Dnipro, Ukraine, 2020); 3rd International Scientific and Practical Conference “21st Century Management: Globalization Challenges”, (Poltava. Ukraine, 2019); International Scientific Conference «Development of the country's economic system in the context of international cooperation», (Odesa, Ukraine, 2019); Materials of the scientific and practical conference of teachers, graduate students and students of SNAU (Sumy, Ukraine, 2019); International scientific and practical internet conference “Sixtieth economic and legal discussions” (Lviv, Ukraine, 2021).

The author's personal participation in obtaining the scientific and practical results presented in the dissertation. Approbation of the scientific and practical results presented in the dissertation was carried out by the applicant personally. In the published works, printed in co-authorship, individual theoretical developments, setting up and conducting of all experimental studies, processing of the obtained results, scientific analysis of research results, formulation of conclusions and proposals belong to the doctoral student.

Evaluation of the language and style of the dissertation. The dissertation is written in competent English, has meaningful integrity, consistency and completeness. The style of presentation of the material corresponds to that accepted in the scientific literature.

The degree of maturity of the acquirer. During his graduate studies and dissertation work, he demonstrated a high level of scientific training, knowledge of the "Sports industry" specialty, the ability to formulate and solve scientific problems, and outline the ways of their practical implementation. Yu Zhijiang has the ability to analyze and synthesize scientific knowledge and formulate substantiated conclusions, possesses modern methods of experimental research, packages of special programs for calculating the results of experiments.

Evaluating the dissertation work positively, one should point out specific debatable issues:

1. When considering competitiveness (fig. 1.1.), it was expedient to establish the relationship of global competitiveness.

2. It was appropriate to consider the definition of the concepts "sports industry" and "sports economy" (pp. 44-49).

3. It was appropriate to provide analytical data on spending on the sports industry from the Chinese budget.

However, the above remarks do not impact the overall high evaluation of Yu Zhijiang's research. According to the results of a detailed examination of Yu Zhijiang's dissertation and scientific publications, one should note the applicant's scientific maturity and ability to conduct independent research at a high scientific level. The reviewed dissertation is a completed, independently performed scientific work characterized by integrity and significant theoretical and applied value.

Conclusion on compliance of the dissertation work with the requirements of the procedure for obtaining a scientific degree

The topic selection of Dr. Yu Zhijiang's dissertation has high practical significance. The dissertation aims at the development of the sports industry in the conditions of geo-economic challenges which from point view of the geo-economic challenges. This work incorporates new scientific results and corresponds to the specialty 073 - Management.

In terms of innovation, design and academic value and application value, the thesis "Development of the sports industry under geo-economic challenges" meets the requirements of the requirements of the "Procedure for awarding the degree of Doctor of Philosophy and annulment of the decision of the one-time specialized academic council of the institution of higher education, scientific institution on awarding the degree of Doctor of Philosophy", approved by Resolution No. 44 of the Cabinet of Ministers of Ukraine dated January 12, 2022. The author, Yu Zhijiang, earned a Doctor of Philosophy degree in the specialty 073 "Management".

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