

ВІДГУК РЕЦЕНЗЕНТА

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ХАРЧЕНКО Тетяни Олександрівни

на дисертаційну роботу аспіранта кафедри менеджменту імені Л.І. Михайлової **Лі Цункень (Li Zongkeng)** на тему «Management of socio-economic development of the southwestern provinces of China» («Управління соціально-економічним розвитком південно-західних провінцій Китаю»), поданої на здобуття ступеня доктора філософії з галузі знань 07-управління та адміністрування за спеціальністю 073 - «Менеджмент»

Relevance of the topic of the dissertation.

For the People's Republic of China, coordinated regional development has always been a top priority issue. Today, manifestations of the uneven development of China's regions remain a significant problem, which is manifested in local inconsistencies, the dichotomy between the city and the countryside, economic and social differences, material and spiritual misunderstandings, etc. Given China's large-scale territory, large population, and uneven provision of natural resources in the regions, the historical problem of regional development imbalance remains pronounced.

The main task of the dissertation was to find ways to implement coordinated regional development - this is not a fleeting achievement, but a long-term task that requires persistent efforts: adjusting and improving the framework of regional policy based on objective economic principles, using the comparative advantages of each region, promoting the rational course and the effective concentration of various factors, as well as the continuous strengthening of initiatives to promote coordination and development within and outside the provinces.

Connection of work with scientific programs, plans, topics. The dissertation research was carried out within the framework of the topic "Development of management in the conditions of international integration processes" 2019-2023 (state registration number 0119U001336), which corresponds to the thematic plan of research works of the Sumy National Agrarian University (Ukraine), where the author

investigated measures to overcome socio-economic inequality in areas where ethnic minorities live in Southwest China; as well as within the framework of personal research projects "Enhancing Basic Research Abilities for Young and Middle-aged Teachers" at Guangxi University (022KY0682) and Special Project "14th Five-Year Plan" of Guangxi University Education (2022ZJY2695).

The scientific novelty of the obtained results is as follows:

- firstly was developed a conceptual program for the eradication of regional disparities in the economic and social development of the southwestern provinces of China in the context of inequality between urban and rural areas, which is characterized by reasonable coordination of the actions of state and local authorities, orderly competition of all economic entities in the region, environmental sustainability, joint prosperity and mutually beneficial results for all parties involved in the development process – the state, enterprises, and the population;

- was improved the methodological construction of a complex system for assessing the level of development of urban and rural areas of southwestern ethnic groups based on the entropy weight method by measuring the results of unbalanced development of ethnic regions in southwestern China by the method of fuzzy comprehensive assessment of development in four dimensions - economy, society, ecology and resources to the existence of people;

- has been improved the theoretical-practical approach of finding ways of development and methods of implementing the strategy of achieving balanced economic and social development in the ethnic regions of Southwest China by focusing on three key aspects: the principles of joint management, the function of collective management and the synergy of development ways, taking into account sustainability in four dimensions: economic, social, ecological and sources of existence.

- further developed the definition of the theoretical relationship between the theory of unbalanced development, the theory of polycentric management and the theory of sustainable development in the ethnic regions of southwest China through the application of the model of uneven regional development, which consists in the analysis

and comparison of the measurement model and the model of assessment of regional development imbalance and building a system for measuring unbalanced development in ethnic areas in southwest China;

- further are outlined important impulses for innovative development and acceleration of building a reliable system for high-quality development, strengthening the economic and demographic capacity of central cities, urban clusters and other economically developed regions, while strengthening the role of other regions in ensuring food security, ecological integrity and border stability.

The practical significance of the obtained results lies in their further use by institutions of higher education and management bodies for the development of territorial communities in southwestern China. This dissertation study facilitates the understanding of the current state of unbalanced economic and social development in the ethnic regions of Southwest China; a dynamic measurement covering four dimensions: economic, social, environmental and consumer is carried out to assess the imbalance between urban and rural areas; the variability of development in ethnic regions is analyzed, providing empirical evidence to support the key strategy of building a new development model and promoting high-quality development in these areas. Dissertation research can become the basis for determining regional development priorities for meso-level officials, for students studying the disciplines "Economics of Local Development", "Regional Management", "Managing the Development of Territorial Communities", etc.

The main results obtained personally by the author

The main task of the dissertation was to find ways to implement coordinated regional development - this is not a fleeting achievement, but a long-term task that requires persistent efforts: adjusting and improving the framework of regional policy based on objective economic principles, using the comparative advantages of each region, promoting the rational course and the effective concentration of various factors, as well as the continuous strengthening of initiatives to promote coordination and development within and outside the provinces.

Currently, the "Rural Revitalization Strategy", the "One Belt, One Road" Development Strategy and the "Regional Coordinated and Sustainable Development" National Plan have become the key principles shaping China's economic and social landscape in the new era. Under the influence of European strategies for rural development and revitalization, significant progress has been made in various economic and social aspects of the ethnic regions in southwest China. However, with the increase in the level of interregional economic and social development, a number of problems arose, first of all, with regard to the exacerbation of disparities in intraregional development. The striking urban-rural gap in the ethnic regions of southwest China has significantly hindered the overall improvement in the quality of development in these provinces. Therefore, solving the problem of unbalanced economic and social development in the regional context is a priority for the ethnic regions of southwest China.

The problem is particularly complex due to the fact that the southwestern ethnic regions belong to the national poverty areas, and in combination with their special geographical environmental factors and weak economic base, as well as differences in the implementation of policies in the ethnic regions, the gap in the level of regional development between provinces, autonomous regions and municipalities is relatively large, which is mainly reflected in the differences in the development of cities and villages, as well as in the unbalanced and insufficient development of the economy, society, ecology and livelihoods of people in the areas where ethnic minorities live.

The objects of the dissertation research are Chongqing Municipality, Sichuan Province, Yunnan Province, Guizhou Province, Tibet Autonomous Region and Guangxi Zhuang Autonomous Region.

The results of the study highlight representative data on the development of urban and rural areas in six provinces (autonomous regions and municipalities) in southwest China over the past 10 years, and also characterize the current state and problems of unbalanced economic and social development of ethnic areas in southwest China through a comprehensive assessment (an empirical study of the imbalance and

causes of insufficient economic and social development) and proposals for ways to improve the situation.

The specific content of the study is as follows:

Chapter 1 is devoted to the conceptual definition of the theoretical and methodological foundations of unbalanced development. First, this chapter traces the theoretical origins of the connotation of unbalanced development in ethnic areas in southwest China and identifies the characteristics of unbalanced development. Second, the theoretical relationship between the theory of unbalanced development, the theory of polycentric governance and the theory of sustainable development in the ethnic regions of southwest China is analyzed. Finally, the methodological basis of the dissertation research is introduced - the model of uneven regional development, which consists in the analysis and comparison of the measurement model and the model for assessing the imbalance of regional development and the construction of a system for measuring unbalanced development in ethnic areas in southwest China. Based on the results of measuring unbalanced development using the spatio-temporal and geographic weighted regression (GTWR) method, an analysis of economic, social, and environmental factors affecting the balanced development of ethnic regions in southwest China was conducted. As a result, a comprehensive system for assessing the level of development of urban and rural areas of southwestern ethnic groups based on the entropy weight method was built.

In Chapter 2, based on the literature review and theoretical background research in Chapter 1, an empirical analysis of the unbalanced economic and social development of ethnic minority areas in southwest China is carried out, and a foundation is laid for a ten-year empirical study of the development paths of provinces with all the problems and imperfections.

Thus, the characteristics of unbalanced economic and social development in the ethnic areas of southwestern China were studied. The Balanced Development Index of Tsinghua University was used to measure the general characteristics of the development trend and the characteristic structure of development in various areas of urban and rural

areas. In addition, was conducted a study of the factors affecting the imbalance of economic and social development in the ethnic areas of southwest China, and was conducted the analysis of the heterogeneity of four factors - economy, society, ecology, and people's livelihoods on the imbalance of development in the ethnic areas of southwest China.

Chapter 3 of the dissertation study was devoted to the search for ways of development and methods of implementing the strategy of achieving balanced economic and social development in the ethnic regions of Southwest China. This chapter first explains the polycentric approach to solving the problem of unbalanced development in the ethnic regions of Southwest China, focusing on three key aspects: the principles of joint governance, the functions of collective governance, and synergistic ways. As a result, specific measures and recommendations were proposed to promote balanced economic and social development in the ethnic regions of southwest China, taking into account sustainability in four dimensions: economic, social, environmental and livelihood. Finally, based on the assessment of economic imbalances and deficiencies in the ethnic regions of Southwest China, as well as on the basis of the results of measurement and assessment, an analysis of three-level indicators of balanced development within economic, social, and environmental aspects was conducted, on the basis of which strategies are built to achieve a spatially balanced economic and social development in the ethnic regions of Southwest China, provide theoretical ideas for the study of scientifically coordinated and sustainable development in the social and economic spheres of the ethnic regions of Southwest China, and offer empirical examples for conducting regional research.

During a detailed review of the text of the dissertation work, scientific works of the recipient, study of the report on the results of the plagiarism check (Unicheck program), no grounds for doubting the academic integrity and level of scientific training of the recipient were established. The text of the dissertation is consistent with the dissertation's scientific works, which have undergone a double-blind review, which is also a confirmation of the absence of signs of falsification of the research results.

The dissertation work of Li Zongkeng on the topic "Management of socio-economic development of the southwestern provinces of China" is the result of the applicant's independent research and does not contain elements of plagiarism and borrowing according to the resolution of the CMU dated 12.01.2022 No. 44, paragraph 9. The used ideas, results and texts of other authors have a link to the corresponding source.

Number of scientific publications

The main scientific provisions and results of research on the topic of the dissertation were published in 10 scientific works, including: 3 articles in specialized scientific publications of Ukraine, all included in international scientometric databases; 3 articles were published in scientific periodicals of the Organization for Economic Cooperation and Development, which are included in the Scopus scientific-metric database; 4 theses in materials of scientific conferences. The total volume of publications is 2.23 sheets, of which 1.25 sheets. belongs to the author personally.

List of publications:

a. Publications highlighting the main scientific results of the dissertation:

1. Li Zongkeng, Li Zhuoran, Andrii Mykhailov, Wei Shi, Yang Zhuquan, Xia Surong (2021). Evaluation and Analysis of Socio-Economic Development Level and Management in Guangxi province of China. Vol. 39 No. 5: Special Issue: Innovation in the Economy and Society of the Digital Age <https://doi.org/10.25115/eea.v39i5.5089>
2. Haiyan Yin, Zhiping Huo, Nataliia Klietsova, Zongkeng Li, Yongsheng Zhang (2021). Innovations in Human Resource Management: Willingness and Ability of Long-Term Care Insurance. Marketing and Management of Innovations (MMI), Issue2, p.261-277. <http://doi.org/10.21272/mmi.2021.2-22>
3. Kuang Yushu, Li Zongkeng, Pan Changliang (2022). The Construction of Conceptual Framework of Enterprise Internal Control Evaluation Report. Journal of Sensors, vol. 2022, Article ID 2753001. <https://doi.org/10.1155/2022/2753001>.

4. Li Z., Li Z., Sokhan I., Zhuquan Y. (2023) "Study on the Features of Balanced Economic and Social Development in Ethnic Regions of Southwest China under the Perspective of Common Prosperity." *Business Inform* 4:21–26. <https://doi.org/10.32983/2222-4459-2023-4-21-26>

5. Сохань, І., & Li, Z. (2023). Контрзаходи подолання соціально-економічної нерівності в районах етнічних меншин південно-західного Китаю. *Економіка та суспільство*, (52). <https://doi.org/10.32782/2524-0072/2023-52-94>

6. Сохань, І., & Zongkeng, L. (2023). Концепція надання державних послуг у провінціях південно-західного Китаю. *Економічний простір*, (185), 132-135. <https://doi.org/10.32782/2224-6282/185-23>

b. publications confirming approval of dissertation materials

7. Li Zongkeng, Li Zhuoran (2020). Domestic waste management in Chinese rural areas. Сучасний менеджмент: тенденції, проблеми та перспективи розвитку: V Міжнародна науково-практична конференція молодих вчених і студентів: тези доповідей, (Дніпро, 23 квітня 2020 р.). [Електронний ресурс]. – Дніпро: Університет імені Альфреда Нобеля, 2020. – р.149-150. ISBN 978-966-434-485-9. https://ir.duan.edu.ua/bitstream/123456789/3019/3/Макет_Тези%20менеджмент_ГОТОВО_.pdf

8. Li Zongkeng, Li Zhuoran, Xia Surong (2020). Research on the current situation and countermeasures of rural tourism development in China. *International scientific journal "PROGRESS"* 2020, №3-4, ISSN: 1512-0422 https://dspace.nplg.gov.ge/bitstream/1234/326102/1/Progresi_2020_N3-4.pdf

9. Li Zongkeng, Li Zhuoran (2022). Multi-domain Collaborative Path Study of Public Service Supply in the Ethnic Minority Areas of Southwest China, Матеріали Всеукраїнської наукової конференції студентів і аспірантів, присвяченої Міжнародному дню студента – (14-18 листопада 2022 р.). – Суми, 245 с.

10. Li Zongkeng (2023). The economic and social development in the southwest ethnic minority areas in China. Матеріали науково-практичної конференції

викладачів, аспірантів та студентів Сумського НАУ (25-28 квітня 2023 р.), Суми, 420 с.

c. publications, to additionally reflect the results of the dissertation

11. Pan Changliang, Li Jinfang, Li Zongekeng, Zhuo Qingfeng, Video application analysis platform software V1.0 for all-area intelligent rural governance (Computer Software Copyright: 2022.04.30 #11086048)

Remarks and wishes for the content.

Characterizing the dissertation work of Li Zongekeng as a whole, it should be noted that it certainly has relevance, scientific and practical significance. During the review of the work, some issues of a debatable nature, comments and suggestions arose:

1. In chapter 1, when describing urban development, it would be appropriate to pay attention to models of sustainable development that would ensure socio-economic-ecological development of the territories of southwestern China.

2. In point 1.3 in figure 1.1, it is not clear how the specified methodology will be implemented when achieving the results of the dissertation work.

3. Clause 1.3 should reveal how formulas 1.1 - 1.16 will be applied during the investigation.

4. I believe that it would be appropriate to provide in the work a brief description of each variation element of the system of assessment of balanced development of regions, the systematization of which is given in table 2.1 and further on in the text of the dissertation.

5. Also, in table 2.4 and fig. 2.13, the division into primary and secondary indicators of the balanced development of regions is unclear. And are they related to the indicators described in Chapter 1?

6. In Chapter 3 and Fig. 3.1, it would be advisable to analyze separately all influencing factors, to apply forecasting and modeling methods for visual representation of research results.

7. Point 3.2 would be expedient to present with the help of graphic objects, which

would add a winning type of information.

However, the indicated comments and wishes do not fundamentally affect the overall positive assessment of the dissertation work, are not fundamental and do not reduce its rather high overall assessment.

Correspondence of the dissertation to the specialty and profile of the board

Dissertation work by Li Zongkeng on the topic "Management of socio-economic development of the southwestern provinces of China", which was submitted for defense to a specialized academic council for obtaining a degree doctor of philosophy in the field of knowledge 07 management and administration with a specialty 073 management in terms of its relevance, scientific and theoretical level, main results of validity, main provisions and results published in professional publications, novelty of the setting and practical significance meets the requirements of the order of the Ministry of Education and Culture of Ukraine No. 40 of January 12 of 2017 "On the approval of the requirements for the preparation of the dissertation" and Resolution of the Cabinet of Ministers of Ukraine of January 12, 2022 No. 44 "On the approval of the Procedure for awarding the degree of Doctor of Philosophy and the cancellation 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" with changes introduced in accordance with Resolution of the Cabinet of Ministers No. 341 of March 21, 2022. The content of the dissertation corresponds to the passport of the specialty.

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