

# Study on the mechanism and countermeasures of Ningbo-Bengbu cooperation to promote rural revitalization in Bengbu

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## Abstract

Against the backdrop of the integration of the Yangtze River Delta region, in 2021, the Implementation Plan for the Paired Cooperation between Shanghai, Jiangsu and Zhejiang Cities to Assist Northern Anhui Cities clearly states that Ningbo will cooperate one-on-one to assist Bengbu City, and Bengbu City's rural revitalization has ushered in new development opportunities. The research content of this project includes three aspects: First, systematically describe the typical facts of Ningbo-Bengbu cooperation in promoting rural revitalization in Bengbu under the background of economic integration in the Yangtze River Delta, and on this basis analyze and summarize the existing experience of Ningbo-Bengbu cooperation in promoting rural revitalization in Bengbu; second, conduct an in-depth investigation of Ningbo's effective practices of focusing on the "double strengths" of agriculture, rural construction, and the "three major tracks" of farmers' prosperity, and strive to create a higher-quality "pastoral city, urban village", and summarize and analyze the conditions and factors that constrain the development of Bengbu's agricultural and rural economy; third, under the background of the integration of the Yangtze River Delta, how Ningbo-Bengbu cooperation can utilize the agricultural and rural resource endowments and comparative advantages of the two cities, and propose countermeasures and suggestions for deepening Ningbo-Bengbu cooperation to promote rural revitalization in Bengbu is an important content and ultimate goal of this project. This project provides theoretical evidence for industrial cooperation and communication between Bengbu and Ningbo and the promotion of rural ecological civilization construction, which is of great significance to the development of rural revitalization in Bengbu.

## Keywords

Ningbo-Bengbu cooperation, Yangtze River Delta regional integration, rural revitalization, entropy method.

## 1. Introduction

In recent years, all parts of the Yangtze River Delta have gathered new momentum for high-quality development, and the endogenous driving force of integration has become stronger. Ningbo is a developed city in Zhejiang, and Bengbu is an underdeveloped old industrial city in northern Anhui. The difference in the degree of development between the two reflects that the high-quality integrated development of the Yangtze River Delta region needs to make up for the imbalance of regional development. Therefore, at the end of 2021, the "Implementation Plan for the Paired Cooperation between Shanghai, Jiangsu and Zhejiang Cities to Assist Northern Anhui Cities" clearly stated that Ningbo will cooperate one-to-one to assist Bengbu. In recent years, Ningbo has conscientiously implemented the spirit of General Secretary Xi Jinping's important expositions on the "three rural" work, and in accordance with the requirements of "striving for the first, creating excellence, and advancing", closely focusing on the goal of building a pioneer city for agricultural and rural modernization, comprehensively

implementing the rural revitalization strategy, and making every effort to promote high-quality agricultural and rural development, and achieved remarkable results. At the same time, there are many problems in the development of agricultural and rural economy in Bengbu, such as many constraints on the accelerated development of agricultural economy and the low degree of deep processing of agricultural products. Therefore, it is of great significance to take the cooperation between Ningbo and Bengbu as an opportunity to promote the development of rural revitalization in Bengbu.

In line with the trend of multi-level theoretical cross-integration, the Ningbo-Bengbu cooperation is used as a link to link the agricultural and rural development of Ningbo with the rural revitalization of Bengbu. From the perspective of promoting the high-quality development of the Ningbo-Bengbu cooperation, theoretical evidence is provided for the industrial cooperation and communication between Bengbu and Ningbo and the promotion of rural ecological civilization construction, which expands the existing regional cooperation methods and theories. The constraints faced by the high-quality development of the agricultural and rural economy in Bengbu are identified from the four aspects of agricultural economic development level, agricultural science and technology innovation level, agricultural green development level and rural social development level, which provides a reference basis for deepening the Ningbo-Bengbu cooperation and promoting the rural revitalization of Bengbu, which has important application value.

Promoting regional paired cooperation and assistance is an important breakthrough for cultivating new momentum for urban development and achieving high-quality development through cooperation and assistance between regions under the background of integrated development in the Yangtze River Delta (Huang Wei, 2022; Zhang Qian and Shen Juqin, 2023). At present, domestic and foreign research on regional paired cooperation and assistance can be roughly divided into the following two categories: one is counterpart assistance, which mainly explores how to guide efficient cooperation between various subjects through policies to solve the practical problems of paired assistance between the central and local governments, between local governments and within local governments (Wang Yuyou, 2022; Wang Hongwei and Zhou Guanghui, 2023). Different from the policy-driven assistance model of counterpart assistance oriented towards emergency governance, the other is paired cooperation assistance, which focuses more on stimulating the endogenous potential of various participating subjects through cooperation (Luo and Shen, 2009; Liu Xin et al., 2022). Dong Xuebing et al. (2022) analyzed the internal mechanism of regional two-way driving endogenous development by constructing a logical framework of "mountain-sea cooperation" to promote endogenous development in underdeveloped areas. Wang Shan et al. (2022) further evaluated the effectiveness of regional cooperation from the perspective of high-quality development.

From the five aspects of prosperous industry, livable ecology, civilized rural customs, effective governance, and prosperous life, this paper systematically describes the typical facts of Ningbo-Bengbu cooperation in promoting rural revitalization in Bengbu under the background of economic integration in the Yangtze River Delta, and on this basis analyzes and summarizes the existing experience of Ningbo-Bengbu cooperation in promoting rural revitalization in Bengbu. (2) Through field research, in-depth investigation of Ningbo's effective practices of focusing on the "double strength" of agriculture, rural construction, and farmers' prosperity, striving to create a higher quality "pastoral city, urban village", and at the same time using measurement to investigate the barriers encountered in the process of rural revitalization in Bengbu. (3) From a multi-dimensional perspective, the plan and path of rural revitalization in Bengbu are explored. Based on the unique characteristics of agriculture, rural areas, and farmers in Bengbu, and according to Ningbo's rich development experience, the industrial development model and management policy system for deepening rural revitalization in Bengbu are constructed according to local conditions.

Of this project is to use reasonable and rigorous indicators and scientific methods and combine the actual situation of Bengbu City to use the four dimensions of agricultural economic development level, agricultural science and technology innovation level, agricultural green development level and rural social development level as the first-level indicators of the evaluation index system . This part will integrate the "Anhui Provincial Statistical Yearbook", "Bengbu City Statistical Yearbook", and relevant statistical bulletins of Bengbu City, and select some relevant data of Bengbu City from 2016 to 2022 as the original data of the research , and use the entropy method for calculation, so as to fully describe and summarize the current characteristics and evolution laws of rural revitalization in Bengbu City . This part conducts static and dynamic empirical analysis on deepening the cooperation between Ningbo and Bengbu to promote the rural revitalization of Bengbu from five aspects: prosperous industry, livable ecology, civilized rural customs, effective governance, and affluent life. Using a variety of methods such as instrumental variable estimation and structural equation model and different research perspectives, the specific impact and implementation path of the cooperation between Ningbo and Bengbu on the rural revitalization of Bengbu are explored . The barriers encountered in the development of rural revitalization in Bengbu City are examined by using econometrics. While testing theoretical hypotheses, it provides a reference policy entry point for the Ningbo-Bengbu cooperation to promote the development path and measures of rural revitalization in Bengbu. As the high-quality development of the integrated development of the Yangtze River Delta gradually emerges in terms of industrial clusters, scientific and technological innovation elements, and innovative vitality, how to further promote the rural revitalization of Bengbu through the Ningbo-Bengbu cooperation is the focus of the countermeasures research and policy design of this project. Based on the conclusions of the empirical test, this section discusses the plans and paths for rural revitalization in Bengbu City from a multi-dimensional perspective. In view of the unique characteristics of agriculture, rural areas, and farmers in Bengbu City, and based on the rich development experience of Ningbo City, it constructs an industrial development model and management policy system for deepening the rural revitalization of Bengbu City in accordance with local conditions.

Of the Yangtze River Delta region has been fully confirmed to have achieved new results , this project fully examines the current status of agricultural and rural development in Bengbu City in recent years from the perspectives of agricultural economic development level, agricultural science and technology innovation level, agricultural green development level and rural social development level . At the same time, this project focuses on revealing the impact path of Ningbo-Bengbu cooperation in promoting rural revitalization in Bengbu , and compares and analyzes the differences in the effects of the mediating effect in different paths , reflecting the characteristics and innovation of the academic thought of this project. Based on the new perspective of the integrated cooperation of the Pan-Yangtze River Delta during the "14th Five-Year Plan" period, combined with regional integration, this project conducts a targeted analysis of the cooperation of local governments in rural revitalization. Under the background of the development of the "New Triangle", this project explores the cooperation model of paired assistance formed between Ningbo and Bengbu, and combines the role played by Bengbu in this process to formulate the research framework of this article, thereby supplementing the research cases in the micro field. This project mainly combines the development coordination theory, horizontal coordination mechanism theory and holistic governance theory of local governments , and combines the horizontal gradient of Bengbu City in the development of the Yangtze River Delta region to select appropriate cooperation indicators and measure more economic and regional factors. Combining the complementarity of resources in the entire region and the development profile of agricultural and rural economy of Bengbu City in the Ningbo-Bengbu cooperation, this paper provides theoretical support and practical solutions to promote the integrated development of regional economy. In particular, it combines the basic

principles of regional cooperation and explores the construction methods of inter-governmental cooperation measures in rural revitalization, which is in line with the overall development goals of the current cities in the Yangtze River Delta.

This project integrates the relevant data of the Anhui Statistical Yearbook, the Bengbu Statistical Yearbook, and the relevant statistical bulletins of Bengbu, and uses the entropy method for calculation. In combination with the actual situation of Bengbu, the four dimensions of agricultural economic development level, agricultural science and technology innovation level, agricultural green development level and rural social development level are used as the first-level indicators of the evaluation index system, and 24 second-level indicators are derived to construct the evaluation index system of high-quality agricultural and rural development in Bengbu, and more scientifically and rigorously outline the current characteristics and evolution laws of the high-quality agricultural and rural development level in Bengbu. Under the premise of cooperation between the local governments of Ningbo and Bengbu, this project will reasonably expand the relevant theories such as development coordination theory, holistic governance theory, and collaborative governance theory, and take into account the relevant concepts of rural revitalization, and construct a general equilibrium model from the perspectives of producers, consumers and the government, and reveal the impact path of Ningbo-Bengbu cooperation on the development of Bengbu from the perspective of rural revitalization.

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## References

- [1] Zhou Zhengzhu, Ma Tingting, Feng Bowen. The process of market integration in the Yangtze River Delta region: basic situation, main bottlenecks and response strategies [J]. Shanghai Economy, 2023(02):20-34.
- [2] Huang Wei, creating a new round of high-quality development growth pole [N]. Xinhua Daily, 2022-04-27(003).
- [3] Dong Xuebing, Meng Shunjie, Xin Yueyou. The practice, innovation and value of "mountain-sea collaboration" in promoting common prosperity [J]. Journal of Zhejiang Gongshang University, 2022(5): 111-122.
- [4] Wang Hongwei, Zhou Guanghui, Counterpart Support: Innovative Practices to Solve the Problem of Unbalanced Problems among Great Powers [J]. Nanjing Social Sciences, 2023(1):70-80.
- [5] Zhang Qian, Shen Juqin. Spatiotemporal evolution and driving mechanism of high-quality development coordination level in the Yangtze River Delta [J]. East China Economic Management, 2023 (1): 24-32.
- [6] Turok I, Habiyaremye A. Territorial collaboration: a novel way to spread prosperity[J]. Regional Studies, 2020, 54(12): 1776-1786.