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## Narrowing Regional Gaps: A Study on the Strategies for Balanced Development of Regional Education in China

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**Abstract:** By comprehensively analyzing the current status of education development and the achievements of economic development in China, this paper reveals the synergistic effect between the overall improvement of education levels and economic growth. The paper points out that although the increase in educational investment has provided talent support for economic development, the imbalance in regional education development still exists. Furthermore, the paper explores the two-way promotion mechanism between education and economic development, and proposes a series of strategies, including balanced layout, targeted support, and innovation-driven development, to achieve the coordinated and balanced development of regional education and narrow regional gaps. These strategies aim to optimize the allocation of educational resources, improve the quality of education, and promote the all-round progress of the economy and society.

Keywords: Regional gaps; Regional education; Coordinated and balanced development

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### 1. Introduction

In today's world, education is not only a cradle for cultivating talents but also a key driving force for promoting social progress and economic development. With China's rapid economic development, the cause of education has also made remarkable achievements. However, the unbalanced distribution of educational resources among regions has led to regional differences in education levels, which not only affects social equity but also restricts the all-round development of the economy. This paper aims to conduct an in-depth analysis of the current status of education and economic development achievements in China, explore the mutual influence and role between education and economy, and put forward strategies to promote the coordinated and balanced development of regional education and narrow regional gaps [1].

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## 2. Analysis of the current status of China's education development and economic development achievements

### 2.1. Current status of China's education development

According to data from the *China Education Statistics Yearbook 2023*, the gross enrollment rate of higher education in China reached 60.2%, an increase of 0.6 percentage points compared with the previous year <sup>[2]</sup>. This has fulfilled the targets of the "14th Five-Year Plan" ahead of schedule, marking that China's higher education has moved from the stage of massification to popularization. Behind this achievement is the continuous increase in government investment in education. As shown in *Express Statistics on the Implementation of National Educational Funds in 2023*, the total national educational funds input in 2023 amounted to 6.4595 trillion yuan, a year-on-year increase of 5.3% <sup>[3]</sup>. The increase in educational resources, especially the expansion of higher education resources, has cultivated a large number of high-quality talents for society and provided strong intellectual support for the country's economic and social development <sup>[4]</sup>. The improvement of education levels is reflected not only in quantity but also more prominently in quality. Data from the *National Statistical Communique on the Development of Education in 2023* shows that the academic qualification compliance rate of full-time teachers in primary schools, junior high schools, and regular senior high schools in China was 99.99%, 99.96%, and 99.20% respectively. This indicates that the overall quality of the teaching workforce has been significantly improved <sup>[5]</sup>.

## 2.2. There is a synergistic effect between economic growth and educational investment

There is a close synergistic effect between economic growth and educational investment. According to data from the National Bureau of Statistics, China's gross domestic product (GDP) reached 1,349,084 trillion yuan in 2024, increased 5.0% from the previous year <sup>[6]</sup>. The positive interaction between educational investment and economic development is also a key factor in promoting economic growth. An increase in educational investment not only improves the quality of the labor force but also drives technological innovation and industrial upgrading, thereby fueling sustained economic growth.

The coordinated development of education and the economy is further reflected in investment in human capital. As shown by the quantitative analysis in the *China Human Capital Report 2024* released by Central University of Finance and Economics, the contribution rate of human capital stock growth to economic growth has exceeded 30%, making it the second-largest driver of growth after physical capital <sup>[7]</sup>. This indicates that the contribution of human capital to economic growth is on the rise. Increased educational investment not only enhances the skills and knowledge of the labor force but also strengthens the economy's competitiveness and innovation capacity.

### 2.3. Regional analysis of the gaps in education and economy

Despite the remarkable overall achievements in education and the economy, disparities between regions still persist. Taking the eastern coastal regions and the central and western regions as an example, the eastern regions are endowed with more abundant educational resources, and both the quantity and quality of their higher education institutions are higher than those in the central and western regions. According to data from the Ministry of Education, the gross enrollment rate of higher education in the eastern regions is generally higher than that in the central and western regions, and this gap is constantly widening.

Economic gaps are also reflected in educational investment. The eastern regions have a relatively high level of economic development, so local governments there can provide more sufficient educational investment. In contrast, due to the relatively backward economic development, the central and western regions have relatively

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insufficient educational investment [8,9]. This unbalanced educational investment has further exacerbated the regional gap in education.

# 3. Mutual influence and role between education development and economic development

### 3.1. Education development drives economic development

As an engine for social and economic development, the role of education cannot be overlooked. According to authoritative calculations in the *China Human Capital Report 2024* by Central University of Finance and Economics, although the return on education fluctuated slightly, it still remained at 6.72% in 2020 <sup>[7]</sup>. This means that each additional year of education can drive a 6.72% increase in wage levels, confirming the economic value of educational investment. This indicates that education plays a significant positive role in enhancing individual productivity and promoting economic growth.

In addition, by fostering innovative spirit and critical thinking, education provides a steady stream of innovative impetus for economic development. In the case of China, data from the Ministry of Education shows that the number of higher education graduates in China exceeded 11.7 million in 2024, an increase of over 200,000 compared with the previous year, forming a large-scale reserve of highly skilled talents [10]. The expansion of higher education not only supplies a large number of professional talents to society but also promotes the development of knowledge-intensive industries, providing talent support for the transformation and upgrading of the economic structure.

## 3.2. Economic development is the guarantee for education development

Economic prosperity provides a solid material foundation for the development of education. Rapid economic growth offers more financial support for educational investment. For instance, according to the *Statistical Announcement on the Implementation of National Educational Funds in 2023*, the total national educational funds input in 2023 reached 6,459.504 billion yuan, an increase of 5.33% compared with the previous year [11].

Economic prosperity also drives society to set higher requirements for education quality, thereby promoting education reform and innovation. As household income increases, parents attach greater importance to investment in their children's education, which in turn facilitates the diversified and personalized development of education services.

## 3.3. Education development and economic development promote each other

There exists a complex interactive relationship between education and the economy. On one hand, the development of education can improve the quality of the labor force, drive technological progress and innovation, and thereby boost economic growth; on the other hand, economic prosperity can provide more resources and support for education, facilitating the improvement of education quality and the refinement of the education system.

This two-way promotion mechanism is particularly evident in regional development. For instance, the rapid economic development of the eastern coastal regions has driven the prosperity of local education, while the prosperity of education has, in turn, provided talent and technological support for the sustained economic development of these regions.

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## 4. Strategies for coordinated and balanced development of regional education to narrow regional gaps in China

## 4.1. Balanced layout of regional educational resources

The core of the balanced layout strategy lies in ensuring the fair distribution of educational resources, so as to promote the overall improvement of education quality across different regions. This requires policymakers to conduct in-depth analysis of the educational needs and development potential of various regions, and formulate targeted resource allocation plans.

It is necessary to re-evaluate and adjust the distribution mechanism of educational resources to ensure that resources tilt toward regions with relatively lagging education development. Efforts should be made to increase investment in educational infrastructure in rural and remote areas, improve the hardware facilities of schools, and enhance the accessibility of educational services [12]. Through the formulation of fair enrollment policies and examination systems, all students are guaranteed equal opportunities to receive high-quality education.

## 4.2. Targeted support for underdeveloped regions

The targeted support strategy aims to identify and address the bottleneck issues in education development in specific regions and promote the improvement of education levels through targeted measures. Based on the specific conditions of different regions, differentiated education policies should be formulated to meet the special needs of various regions.

Efforts should be strengthened to provide professional training and continuing education for teachers, so as to enhance their professional competence and teaching standards, especially in regions with insufficient educational resources. Incentive measures such as scholarships and grants should be implemented to encourage students to pursue higher-level education and reduce the impact of economic burdens on access to education.

### 4.3. Driving education development through technology and innovation

The innovation-driven strategy emphasizes leveraging technological means to promote the transformation of educational models, so as to meet the educational needs of the new era. Modern technologies such as information technology and artificial intelligence should be integrated into the education process to improve teaching efficiency and learning experience.

Distance education and online learning platforms should be developed to break geographical limitations and enable high-quality educational resources to cover a wider range of regions. A lifelong learning system should be established to encourage people from all walks of life to participate in learning, thereby enhancing the educational level and innovation capacity of the whole society.

#### 5. Conclusion

Education is the cornerstone of a country's development, and the balanced development of regional education is of great significance for narrowing social gaps and achieving sustainable economic development. The strategies proposed in this paper not only focus on the rational allocation of educational resources but also aim to stimulate the inherent vitality of education and promote inter-regional educational equity through the integration of innovation and technology.

We firmly believe that through sustained efforts and policy support, China's education cause will be able to achieve more balanced and high-quality development, laying a solid foundation for building a harmonious society and advancing the long-term development of the economy.

### **Disclosure statement**

The authors declare no conflict of interest.

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