

Research on the Path of Digital Enabling New Quality Productivity in Yangtze River Delta

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ABSTRACT

As one of the most economically developed regions in China, the Yangtze River Delta (YRD) region has always been in the leading position in the country in terms of economic development. However, with the changes in the global economic situation and the promotion of scientific and technological innovation, the Yangtze River Delta region is also facing new development challenges and opportunities. Digital empowerment, as an important driving force of the new round of technological revolution, is of great significance to the development of new quality productivity in the Yangtze River Delta region. As new quality productivity has become the buzzword of China's economic development, how can the Yangtze River Delta recognize the timing and take the pulse of development? Therefore, this study aims to deeply explore the path of digitally-enabled new quality productivity in the Yangtze River Delta region, and provide theoretical and practical support for the sustainable development of the regional economy. By analyzing the impact of digital empowerment on new-quality productivity in the Yangtze River Delta region, this study intends to explore the mechanism of the role of digital empowerment in enhancing new-quality productivity and propose corresponding paths and strategies. Specific research questions include: what is the current status of digital empowerment in the Yangtze River Delta region? What is the impact mechanism of digital empowerment on new quality productivity? How should the path of digital empowerment of new quality productivity in the Yangtze River Delta region be constructed?

KEYWORDS

Digital Economy; New Quality Productivity; Yangtze River Delta Region.

1. INTRODUCTION

Productive forces are the basis for the existence and development of human society, and the advancement of history cannot be separated from the development of productive forces. On the one hand, the productive forces are the natural external forces that people need to resort to in order to create matter; on the other hand, the productive forces are the most general conditions for the existence and development of the society, the decisive force for the evolution of the society from the lower form to the higher form, and the most active and revolutionary factor in the mode of production.

In January 2024, General Secretary Xi Jinping pointed out during the eleventh collective study of the Political Bureau of the CPC Central Committee that "new quality productivity is spawned by revolutionary technological breakthroughs, innovative allocation of factors of production, and in-depth transformation and upgrading of industries, and is characterized by the leap in the optimized combination of laborers, means of labor, and objects of labor, with a significant increase in total factor productivity as the core symbol, and is the most active and revolutionary factor in the mode of production". A significant increase in total factor productivity as the core symbol, characterized by

innovation, the key to quality, the essence of advanced productivity". In essence, the "new" of the new quality productivity is mainly scientific and technological innovation, and the use of technological innovation to promote industrial innovation. Only through the mutual integration, mutual promotion and resonance of scientific and technological innovation and industrial innovation, and the continuous optimization of production factors in the practice of the production process, can we realize the new technology to promote new industries, new modes, new forms of business and new kinetic energy, and lead the industrial transformation and upgrading of the Yangtze River Delta region, and then realize the leap of productivity. The "quality" of new productivity is quality and efficiency. It is to improve the quality and efficiency of economic and social development, so that the economy of the Yangtze River Delta region will develop towards high quality. New quality productivity takes science and technology innovation as the main point, takes high-quality development as the goal, integrates new technologies and new elements such as artificial intelligence and big data, and creates an innovation path with less input of production factors, high efficiency of resource allocation, low cost of resources and environment, and good economic and social benefits. However, few systems combine the digital economy with the development of new quality productivity, and conduct in-depth research around the development of digital economy-enabled new quality productivity. And the new era of digital economy innovation makes the traditional productivity change, empowering the emergence of new quality productivity is the inevitable trend of high-quality development.

The Yangtze River Delta region is an important engine of China's economic development and the core region, if we want to seek new high-quality development, it is necessary to promote the new quality productivity, with the help of advanced information technology and artificial intelligence technology, to realize the intelligent management and optimization of the production process, so that the industrial structure in the region to high-end, modernization and upgrading, so that the key advantageous industries to form a centralized development trend. The main content of new quality productivity is high-tech science and technology, high-quality labor force and high-quality production materials, and the existing literature is mainly from the theory of the main connotation of the new quality productivity, the reasons for the formation of the major significance of the research, through the construction of the new quality productivity evaluation index system, the development level of the new quality productivity of the Yangtze River Delta cities were measured, we should be based on this combined with the digital economy to explore the new quality productivity of the Yangtze River Delta cities. We should explore the impact of new quality productivity on the high-quality development of the Yangtze River Delta and make further research. Digital economy is an innovative industrial development model that enables industries to form innovative forms, and provides a guarantee for the continuous emergence of new quality productivity through innovative means and innovative ecosystems. Therefore, it is crucial to utilize the new productivity in the era of digital economy to promote the high-quality development of the Yangtze River Delta region.

In view of this, this paper aims to explore how digital empowerment can drive the development of new quality productivity in the Yangtze River Delta region, analyze its transformation logic in the development of various industries and regions, solve the key problems in the construction of the Yangtze River Delta region, and play a specific role in the actual path, with a view to providing theoretical support and suggestions for the formulation and implementation of relevant policies.

2. LITERATURE REVIEW

2.1. New Quality Productivity

On September 7, 2023, Xi Jinping hosted a symposium on promoting the comprehensive revitalization of the Northeast in the new era in Heilongjiang Province, pointing out, "Actively cultivate strategic emerging industries such as new energy, new materials, advanced manufacturing,

electronic information, etc., and actively cultivate the future industries to accelerate the formation of new-quality productive forces and to enhance the new kinetic energy of development." [1] Therefore, the new quality productivity is a generative concept in the context of the new era, the current academic community does not have a strict definition of its concept, while its political significance has a clear meaning. 2024 January 31, Xi Jinping, in the twentieth section of the Political Bureau of the Communist Party of China Central Committee in the eleventh collective study, emphasized that the new quality productive forces is the innovation plays a leading role in the development, get rid of the traditional mode of economic growth, the productivity of the development of the path, has a High-tech, high-efficiency, high-quality features, in line with the new development concept of advanced productivity quality. It is born from revolutionary breakthroughs in technology, innovative allocation of production factors, and deep transformation and upgrading of industries. With the leap of workers, labor materials, labor objects and their optimal combination as the basic connotation, with the significant increase in total factor productivity as the core symbol, characterized by innovation, the key to quality, the essence of advanced productivity. Shi Jianxun, Xu Ling (2024) pointed out that the new quality productivity is a new form of productivity that is closely integrated with the new technologies represented by big data, cloud computing, artificial intelligence, green and low-carbon technologies, and the new factors such as digitalized machines and equipment, digitalized laborers, digital infrastructure, massive data, arithmetic, new energy, new materials, etc. [2] Wei Chonghui (2023) grasps the basic connotation of new quality productivity from the discourse context of the new era, the classic Marxist discourse, and the diversity of production factors [3].

The research on new quality productivity to promote the high-quality development of the economy is also concentrated in the recent past. Ren Baoping, Wang Ziyue (2023) pointed out that the digital new quality productivity needs to cultivate the new kinetic energy of economic high-quality development by changing the production mode, improving the production efficiency, and enhancing the innovation ability [4]. Shen Kunrong, JinTongyong, Zhao Qianxin (2024) pointed out that the internal logic of the new quality productivity to empower high-quality development is to accelerate the change of production mode with new technology, to increase the speed of economic growth with new kinetic energy, and to improve the quality of economic development with new quality energy [5].

In summary, it is found that due to the newness of the concept of new quality productivity, there are fewer research results on the combination part of low carbon economy and new quality productivity.

2.2. Digital Economy

Digital economy, as a concept with a broader connotation, any economic form that directly or indirectly utilizes data to direct the role of resources and promote the development of productivity can be included in its scope. At the technical level, it includes emerging technologies such as big data, cloud computing, Internet of Things, blockchain, artificial intelligence, and 5G communications. At the application level, "new retail" and "new manufacturing" are typical representatives [6]. Wu Fuxiang (2020) pointed out that the development of the digital economy, based on digital industrialization and led by industrial digitization, enhances the competitiveness of traditional industries and realizes high-quality economic development through the deep integration of digital technology and the real economy [7].

In 2023, the added value of the core industries of China's digital economy accounted for 10% of GDP. The current development of China's digital economy shows a good trend, and the added value of the core industries of the digital economy accounts for the proportion of GDP is also climbing year by year. Qi Yudong, Du Bo (2021) pointed out that the development of the digital economy is the core hand of the implementation of the innovation-driven high-quality development strategy, constitutes a new kinetic energy to promote Chinese-style modernization, is conducive to the construction of a high-quality development pattern and a high-quality development system of Chinese-style modernization, enhances the total factor productivity of Chinese-style modernization, and adds a new

impetus to the high-quality development of Chinese-style modernization^[8]. Chen Menggen, Zhou Yuanren (2023) meanwhile found in their study that digital economy can promote common wealth through participation opportunity sharing and development results sharing^[9].

Therefore, it can be seen that the digital economy as an economic concept developed in the development of new technology and new era is novel, critical, and trending, and digital empowerment as an important driving force of the new round of technological revolution.

2.3. The Yangtze River Delta and its Industrial Digitization

The Yangtze River Delta (YRD) region, or simply the Yangtze River Delta, is located in the lower reaches of China's Yangtze River, bordering the Yellow Sea and the East China Sea, and is situated at the confluence of the river and the sea, with numerous coastal ports along the river. As of the end of 2019, the Yangtze River Delta region has a population of 227 million and a regional area of 358,000 square kilometers. In 2023, the GDP of the Yangtze River Delta was 305,045 billion yuan, and the economic volume of all the municipalities in the Yangtze River Delta reached more than one hundred billion yuan; the urbanization rate of the resident population exceeded 60%, and with less than 4% of the national land area, it has created nearly one-fourth of China's total economic output, and one-third of China's total imports and exports. In 2019, the density of the railroad network in the Yangtze River Delta region reached 325 km/ 10,000 square kilometers, which is 2.2 times higher than the national average.

The Yangtze River Delta region is one of the regions with the most active economic development, the highest degree of openness and the strongest innovation capacity in China, and has a pivotal strategic position in the overall situation of the country's modernization and all-round opening pattern. Promoting the integrated development of the Yangtze River Delta, enhancing the innovation capacity and competitiveness of the Yangtze River Delta region, and improving economic agglomeration, regional connectivity and policy synergy efficiency are of great significance in leading the nation's high-quality development and the construction of a modernized economic system^[10]. In November 2018, the integrated development of the Yangtze River Delta region was upgraded to a national strategy. Jing Xueqing (2005) showed that the speed of industrial structure advancement among the 15 urban areas in the Yangtze River Delta showed a significant negative correlation with the level of structure advancement at the beginning of the reform and opening-up period, and the gap in the level of structure advancement narrowed substantially^[11].

As for the combination of industry and digital economy in the Yangtze River Delta region, Fu Weizhong and Liu Yao (2021) pointed out that the level of coupling and coordination between industrial digitization and high-quality development of the manufacturing industry in the Yangtze River Delta region showed an upward trend from 2011 to 2019, but the overall level is not high and the spatial difference is large, and there is still a certain gap with benign coordination; the key obstacle factors in each province have both a The key obstacle factors in each province have both relative concentration and certain differences^[12]. Wu Fuxiang (2020) believes that the experience of the Yangtze River Delta digital economy stems from the top-level design and scientific planning, from the overall planning and overall layout, and attaches importance not only to the construction of the digital economic ecosystem, but also to the digital governance of "people-oriented and information sharing"^[7].

Nowadays, the integrated development of the Yangtze River Delta has entered into the "second five years", and under the new stage, institutional innovation and scientific and technological innovation closely correspond to each other. However, the Yangtze River Delta region's digital empowerment of new quality productivity is also facing a number of problems and challenges, including the lack of digital infrastructure, talent shortages, data security and other hidden dangers. In order to seek a new round of high-quality development, the Yangtze River Delta needs to allow key advantageous industries to form clusters under the impetus of new quality productivity.

3. FACTOR FOUNDATION

In the wave of informatization and digitization, the Yangtze River Delta region has become an important engine of China's economic development by virtue of its unique geographical advantages and solid economic foundation. As the frontier of the flourishing development of the digital economy, a new economic form, the Yangtze River Delta region has shown strong vitality and innovation in promoting the transformation and upgrading of productivity and exploring the path of new quality productivity. Next, the author will analyze the elemental basis of the Yangtze River Delta under the study of the path of digitally-enabled new quality productivity.

3.1. Geographic Resources Development: Unique and Vast Market

Geographic location is an external element of the Yangtze River Delta's digital empowerment of new quality productivity. Located on the eastern coast of China, the Yangtze River Delta (YRD) region, including Shanghai, Jiangsu, Zhejiang and Anhui provinces, is one of the most economically developed and active regions in China, with a favorable geographic location and convenient transportation. The huge market demand and the high consumption ability of the residents provide a broad market space for the survival and development of enterprises. Driven by the market, enterprises continue to increase investment in R&D and application of digital technology, promoting industrial transformation and upgrading, and improving new productivity. At the same time, the Yangtze River Delta region's convenient logistics and communication conditions, as well as a wide range of international cooperation channels, have greatly attracted the influx of capital, rich financial resources and investment climate, providing strong capital support for digital empowerment. Capital assistance not only helps digital technology enterprises grow and expand, but also promotes the in-depth integration of digital technology and the real economy, and promotes the generation of new quality productivity. Through international cooperation, the Yangtze River Delta region can introduce and learn from foreign advanced technology and management experience, combine it with local conditions, formulate appropriate development strategies, and accelerate the generation of new quality productivity for digital empowerment.

3.2. Driven by Science and Technology Innovation: Leading the Trend and Continuing to Make Breakthroughs

Science and technology innovation is the core element of the Yangtze River Delta's digital empowerment of new quality productivity. The YRD region is home to a large number of high-level research institutions, universities and science and technology enterprises, and the close cooperation between these institutions and enterprises has provided strong support for the research, development and application of digital technologies. The YRD region also actively introduces international advanced scientific and technological resources and innovation elements to promote continuous innovation and breakthroughs in digital technologies. The driving role of science and technology innovation has enabled the digital economy in the YRD region to maintain its leading position and provide a constant impetus for the development of new quality productivity. For a long time, the Yangtze River Delta region has had profound technological accumulation and industrial foundations in the fields of artificial intelligence, big data, cloud computing and the Internet of Things (IoT). These technologies provide powerful tools and means for digital empowerment, enabling enterprises to realize the intelligence, efficiency and greening of the production process, thus improving new quality productivity.

3.3. Talent Team Building: Talent Pool, Intellectual Support

Talent is a key element of the Yangtze River Delta's digital empowerment of new quality productivity. As a new type of economy, the digital economy has a distinctive demand for talents. In terms of talent

team construction, the Yangtze River Delta region focuses on cultivating high-quality talents with innovative spirit and practical ability, especially strengthening the cultivation and introduction of talents in the fields of digital technology, data analytics, artificial intelligence, etc. The introduction, cultivation, retention and other policies of talents have further strengthened the digital talent team, which also makes the Yangtze River Delta region have rich talent resources, including many universities, research institutes and high-end talents, providing a strong guarantee for the cultivation of new quality productivity. At the same time, the Yangtze River Delta region also actively promotes the integration of production and education and cooperation between schools and enterprises, which facilitates the exchange and cooperation of talents between enterprises and universities. The construction of the talent team provides a solid talent guarantee and strong technical support for the Yangtze River Delta's digital empowerment of new quality productivity.

3.4. Industrial Integration and Development: Cross-border Integration, Creating the Future Together

Industrial integration is an important direction for digital empowerment of new quality productivity in the Yangtze River Delta. The integration and development of digital economy and traditional industries can not only improve the level of intelligence and competitiveness of traditional industries, but also promote the rapid development of new industries. The Yangtze River Delta region focuses on the leading role of digital technology in the integrated development of industries, and promotes the digital transformation of manufacturing, services, agriculture and other fields. The Yangtze River Delta region has also strengthened the cultivation and support for emerging industries, forming a virtuous cycle in which the digital economy and the real economy promote each other. On the premise of having a perfect industrial chain and supply chain, as well as a favorable industrial ecology as an external condition, the Yangtze River Delta region provides a wide range of application scenarios and market space for digital empowerment, promotes the in-depth fusion of digital technology and the real economy, and provides strong support for the cultivation of new quality productivity.

3.5. Infrastructure Development: Building a Solid Cornerstone to Facilitate Development

Infrastructure construction is the basic guarantee for digital empowerment of new quality productivity in the Yangtze River Delta. The digital economy has a high degree of dependence on infrastructure, especially the more urgent need for infrastructure such as the Internet, big data and cloud computing. In terms of infrastructure construction, the Yangtze River Delta region focuses on strengthening the construction of Internet infrastructure, improving network speed and stability, and providing a favorable network environment for the development of the digital economy. By strengthening the construction and application of new infrastructures such as big data and cloud computing, the Yangtze River Delta region has deeply tapped into the rich local data resources, including governmental data, enterprise data, social data, etc., which provides strong support for the innovation and development of the digital economy. With the support of huge data resources, the rich materials and application scenarios provided by the Yangtze River Delta region for digital empowerment through technological integration, mining and application of these data resources can effectively enhance the level of industrial intelligence, networking and synergization, thus promoting the generation of new quality productivity.

3.6. Policy Support and Guidance: Policy Leadership, Helping to Move Forward

Policy support and guidance is a necessary factor for the digital empowerment of new productivity in the Yangtze River Delta. The government plays an important role in the development of the digital economy by formulating relevant policies and plans to provide strong support and guidance for the development of the digital economy. In recent years, a series of policies have been introduced at the

national level and by local governments in the Yangtze River Delta, aiming to accelerate the development of the digital economy and promote industrial transformation and upgrading. For example, the implementation of national strategies such as the National Pilot Zone for Innovative Development of the Digital Economy and the Integrated Development of the Yangtze River Delta has provided a favorable policy environment for digitally-enabled new-quality productivity in the Yangtze River Delta region. In terms of policy support and guidance, the Yangtze River Delta region has focused on strengthening top-level design and integrated planning, and has formulated a series of policy measures to promote the development of the digital economy. At the same time, the Yangtze River Delta region has also strengthened its support and services for digital economy enterprises, providing a favorable policy environment for their development. The role of policy support and guidance has provided a strong guarantee for the Yangtze River Delta digital empowerment of new quality productivity.

In summary, the study of the path of digital empowerment of new quality productivity in the Yangtze River Delta needs to pay attention to the elemental foundations of geographic resources development of scientific and technological innovation drive, talent team construction, industrial integration and development, infrastructure construction and policy support and guidance. These elemental foundations interact and support each other, which together constitute a solid foundation for the Yangtze River Delta's digital empowerment of new quality productivity. In the future, the Yangtze River Delta region should continue to strengthen the construction and improvement of these elemental foundations, promote the high-quality development of the digital economy, and inject new momentum into the development of new quality productivity.

4. PATHS OF ACTION

The role path of the Yangtze River Delta region through digital empowerment of new quality productivity is reflected in the following aspects:

4.1. Technological Innovation and Industrial Upgrading

4.1.1. Application of Digital Technology

Through the application of digital technologies such as big data, artificial intelligence and cloud computing, enterprises can optimize the production process and improve production efficiency and product quality. For example, through the intelligent manufacturing system, enterprises can monitor the production process in real time and predict the demand for equipment maintenance, thus reducing downtime and improving production efficiency.

4.1.2. Industrial Chain Digitization

Digital technology can connect the upstream and downstream of the industrial chain, realize the seamless docking of information flow, capital flow and logistics, and improve the synergistic efficiency of the entire industrial chain. For example, through blockchain technology, the transparency of the supply chain can be realized, and the efficiency and security of supply chain management can be improved.

4.1.3. Innovation-driven Development

Digital technology provides new tools and platforms for innovation, such as online collaboration platforms and innovation labs, which promote cross-field and cross-regional innovation cooperation. The application of digital technology can stimulate the innovation drive of enterprises and regions, leading the industrial structure to upgrade to high-end and modernization, thus occupying a higher rung in the global value chain. For example, enterprises in the Yangtze River Delta region can cooperate with global research institutions through online platforms to jointly develop new technologies and products.

4.1.4. Promoting Technological Innovation

The development of the digital economy promotes technological innovation, which is particularly evident in the YRD region. Technological innovation, as the core driving force of new quality productivity, has been accelerated and amplified through digital means.

4.2. Regional Integration and Synergistic Development

4.2.1. Infrastructure Connectivity

The deepening of regional integration and cooperation in the Yangtze River Delta has provided a favorable environment for the cultivation and development of new quality productivity. The construction of digital infrastructure, such as 5G networks and data centers, provides high-speed and stable information transmission channels between cities in the YRD region, supporting the development of regional integration. For example, through 5G networks, enterprises in the YRD region can realize remote collaborative work and improve operational efficiency.

4.2.2. Public Service Sharing

Digital technology enables public service resources such as education, medical care and transportation to be shared within the region, improving the level of equalization of public services. For example, through the online education platform, students in the Yangtze River Delta region can enjoy quality education resources.

4.2.3. Market Integration

Digital platforms have facilitated intra-regional market integration, with enterprises having easier access to other cities' markets and consumers having easier access to goods and services from all over the region. For example, through e-commerce platforms, consumers in the Yangtze River Delta region can purchase specialty products from various regions.

4.2.4. Digital Transformation Promotes Integration and Consolidation

The integration and high-quality development of the Yangtze River Delta region's economy requires seizing the opportunity of the integration and development of digital "new infrastructure". Through digital transformation, we will promote integration and integration within the region, and at the same time drive high-quality development through intelligent integration.

4.3. Employment Structure Optimization and Talent Cultivation

4.3.1. Creation of New Occupations

The development of the digital economy has created a large number of new occupations, such as data analysts and cloud computing engineers, which often have high technical content and salary levels. For example, the growing demand for data analysts by enterprises in the Yangtze River Delta region has attracted a large number of talents to engage in this profession.

4.3.2. Innovation in Talent Training Mode

The application of digital technology also promotes the innovation of education mode, such as online education and virtual practical training, which improves the efficiency and quality of talent training. For example, colleges and universities in the Yangtze River Delta region can utilize the virtual practical training platform to provide students with a more realistic practice environment.

4.3.3. Upgrading Employment Structure

With the development of digital economy, the employment structure is also upgrading in the direction of high skills and high education, which improves the overall labor productivity. For example,

enterprises in the Yangtze River Delta region have increased their demand for high-skilled personnel, prompting the labor market to move toward higher skill levels.

4.3.4. Cooperation between Enterprises and Educational Institutions

In the YRD region, enterprises are increasingly cooperating with universities and vocational colleges. Through cooperative programs, students can gain practical work experience through internships in enterprises, while enterprises can participate in the process of talent cultivation and help educational institutions adjust and update the content of their curricula to better meet market demand.

4.4. Government Governance and Service Enhancement

4.4.1. Digital Governance

Government departments utilize digital technologies to improve governance efficiency, such as e-government and smart city construction, which enhance the quality and efficiency of government services. For example, governments in the Yangtze River Delta region can provide more convenient government services through e-government platforms.

4.4.2. Data-driven Decision-making

The government can more accurately understand economic and social development and make more scientific decisions through big data analysis. For example, governments in the Yangtze River Delta region can use big data analysis to predict future economic development trends and formulate corresponding policies.

4.5. Social Life Improvement and Cultural Communication

4.5.1. Digital Life

The application of digital technology makes people's life more convenient, such as e-commerce and online payment, which improves the quality of life. For example, residents in the Yangtze River Delta region can enjoy a more convenient shopping experience through e-commerce platforms.

4.5.2. Cultural Communication

Digital technology also provides new channels and ways for cultural dissemination, such as digital museums and online art exhibitions, which enrich people's cultural life. For example, museums in the Yangtze River Delta region can display more cultural relics and historical materials through digital technology.

To sum up, the action paths of digitally-enabled new quality productivity in the YRD region are multifaceted, including technological innovation and industrial upgrading, regional integration and synergistic development, optimization of employment structure and talent cultivation, government governance and service enhancement, as well as improvement of social life and cultural dissemination. These action paths are intertwined and mutually reinforcing, and together they promote the overall economic and social development of the Yangtze River Delta region.

5. CONCLUSION AND SUGGESTIONS

5.1. Conclusion

5.1.1. The Digital Economy in the Yangtze River Delta Region Has Become a New Engine for Promoting High-quality Development.

Digital economy promotes the transformation and upgrading of the manufacturing industry: through the empowerment of digital economy, the manufacturing industry in the Yangtze River Delta region

has realized the transformation and upgrading from traditional manufacturing to intelligent manufacturing, and improved production efficiency and product quality.

5.1.2. Digital Economy Promotes the Optimization of the Economic Structure of the Yangtze River Delta Region

(1) Integration and development of digital economy and traditional industries: The Yangtze River Delta region has accelerated the transformation and upgrading of industries by promoting the development of traditional industries in the direction of digitization, intelligence and networking through the application and innovation of digital technology.

(2) The digital economy has given rise to new industries: The rapid development of the digital economy has given rise to a number of new industries and modes, such as e-commerce, sharing economy, online education, etc., which have brought new economic growth points to the Yangtze River Delta region.

5.1.3. Digital Economy Enhances the International Competitiveness of the Yangtze River Delta Region

(1) Digital economy enhances enterprises' innovation ability: enterprises in the Yangtze River Delta region have strengthened their cooperation with universities and scientific research institutions under the impetus of the digital economy, improved their innovation ability, and formed a number of enterprises and products with core competitiveness.

(2) Expansion of international market by digital economy: Enterprises in the YRD region have actively explored the international market through the digital economy platform, and improved the international popularity and competitiveness of their products.

5.1.4. Development Trend of Digital Economy in the Yangtze River Delta Region

(1) Driven by scientific and technological innovation: The Yangtze River Delta region will continue to increase scientific and technological innovation to promote the transformation of the digital economy to high-quality development.

(2) Strengthened infrastructure construction: The Yangtze River Delta region will strengthen the construction of Internet infrastructure, improve network speed and stability, and provide solid support for the development of the digital economy. The digital economy in the Yangtze River Delta region has played an important role in promoting high-quality development, optimizing economic structure, and enhancing international competitiveness, and has shown a trend of continuous and rapid development. In the future, the Yangtze River Delta region should continue to strengthen the innovative development of digital economy and create a digital economy highland with international competitiveness.

5.2. Suggestions

(1) Stimulate the potential of regional science and technology innovation. First, give full play to the role of the Yangtze River Delta Science and Technology Innovation Community Construction Office. We should build long-term research mechanisms such as joint inputs, support high-level universities and scientific research institutions to create a number of world-class basic research advantageous disciplines, and strengthen the construction of new research facilities such as data processing platforms. Secondly, we will collaborate to formulate core technology attack programs.

(2) Promote the construction of a modernized industrial system. At present, it is necessary to lay out the industrial chain around the development of new quality productivity, focus on promoting the systematization of industrial layout, and build a good industrial ecology. Comprehensively optimize the industrial spatial structure. The achievements of science and technology innovation will be widely

used, the layout of the development of highly technology-intensive war new industries and future industries, and efforts to develop the digital economy.

(3) Promote the deep integration of manufacturing and digital technology. From the aspect of intelligent manufacturing, you can encourage manufacturing enterprises to introduce digital technology, promote the digital transformation of production lines, supply chains and other key links, improve production efficiency and reduce costs. Support manufacturing enterprises to build an industrial Internet platform to realize real-time monitoring and intelligent analysis of production data. From the aspect of digital design and manufacturing, support manufacturing enterprises to adopt digital design and manufacturing technologies to realize rapid design and accurate manufacturing of products. Encourage cooperation between universities, research institutions and enterprises to jointly develop new technologies for digital design and manufacturing. Based on industry chain synergy, strengthen the cooperation between upstream and downstream enterprises in the Yangtze River Delta industry chain, and promote the development of the industry chain in digitalization, networking and intelligence. Establish an industry chain collaboration platform to realize the sharing of industry chain information and the optimal allocation of resources.

(4) Cultivate digital talents. Focus on talent cultivation, strengthen cooperation between universities, vocational colleges and other educational institutions and enterprises to jointly cultivate digital talents. Support colleges and universities to open digital economy, big data, artificial intelligence and other related majors and courses, and strengthen practical teaching and faculty construction. The introduction of talents is also indispensable. Increase the introduction of talents to attract outstanding domestic and foreign digital talents to the Yangtze River Delta region. Formulate policies for the introduction of talents, provide housing, children's education and other preferential policies, and provide a good working and living environment for talents.

(5) Optimize the policy environment. Policies can be formulated and improved to support the development of the digital economy, including tax incentives, financial support, market access and other aspects. Increase support for digital economy projects and promote the landing and development of digital economy projects. Strengthen the construction of regulations in the field of digital economy, and formulate and improve relevant laws, regulations and standard systems. Strengthen the protection of intellectual property rights in the field of digital economy and safeguard the legitimate rights and interests of enterprises. Strengthen exchanges and cooperation between the Yangtze River Delta region and other regions, and learn from the successful experiences of other regions in the development of digital economy. Actively participate in international digital economy cooperation and exchanges, and enhance the Yangtze River Delta region's status and influence in the global digital economy.

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