

Original Paper

Internal Mechanism and Practical Path of New Quality Productivity Promoting Common Prosperity

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Abstract

In order to speed up the modernization of China and realize common prosperity, this paper expounds the internal mechanism of new productivity to promote common prosperity around the innovation of production factors, production mode and development function, and explores the practical path of new productivity to promote common prosperity from the dimensions of scientific and technological innovation, industrial transformation and upgrading, digital infrastructure construction, digital cultural industry development and talent cultivation. The results show that new productivity provides material basis for common prosperity through multi-dimensional innovation of technology, industry and system, and is the core power to realize common prosperity in the process of China modernization.

Keywords

new quality productivity, common prosperity, internal mechanism

1. Introduction

In September 2024, the leaders of the CPC Central Committee stressed during the 11th collective study of the Political Bureau of the CPC Central Committee that we should accelerate the development of new productive forces and promote high-quality development. New quality productivity is an advanced productivity quality state dominated by innovation, free from traditional economic growth mode and productivity development path, characterized by high technology, high efficiency and high quality, conforming to the new development concept, and showing strong enabling effect in promoting the process of common prosperity. Through technological innovation and innovative allocation of production factors, the new productivity accelerates the construction of a high-quality development power system, which not only lays a solid material and technological foundation for realizing common prosperity, but also stimulates the vitality of social subjects through innovative ecological cultivation, condenses development consensus, and provides core impetus for realizing common prosperity. At

present, under the framework of China's modernization strategy, it has become an inevitable path to realize the great cause of national rejuvenation to lead high-quality development and common prosperity with new productivity. This article explores the practical path of promoting common prosperity by new productive forces from multiple angles, which has important practical significance for realizing China modernization of common prosperity for all people.

1.1 The Internal Mechanism of Promoting Common Prosperity by New Quality Productivity 1.1 Innovation of Production Factors

Under the background of the rapid development of digital economy, the role of traditional production factors such as labor, capital, land and technology in promoting common prosperity is gradually weakening, while the enabling role of new production factors mainly represented by structured or unstructured data in promoting common prosperity becomes more and more prominent. The essential characteristic of new quality productivity lies in constructing the fusion innovation paradigm of "data elements ×" to promote the combination iteration of data elements and other production requirements. The key to promoting common prosperity lies in innovating production factors. On the one hand, the realization path of common prosperity involves not only the efficiency improvement of value creation level, but also the fair optimization of value distribution dimension. By deeply integrating the data elements with the characteristics of liquidity, virtuality, value-added, inclusiveness and universality into the social production and reproduction circulation system, the total factor productivity can be improved. In essence, through the reconstruction of production function, data elements promote the exponential growth of wealth creation efficiency, and also promote the inclusive sharing of development achievements by means of distribution mechanism innovation and innovation, thus consolidating the foundation of common prosperity. On the other hand, on the basis of tapping the advantages of traditional production factors, the new productivity pays more attention to the comprehensive application of new production factors such as information, knowledge, platform, management and data, aiming at promoting the coordinated integration of data elements with knowledge, capital and other multi-factors, assisting the diffusion of knowledge and realizing double material and spiritual prosperity.

1.2 Innovation of Production Mode

The innovation of production mode is the key to promoting common prosperity by new productive forces. On the one hand, from the perspective of technology and economy, the digital transformation of the whole industrial chain not only realizes the efficient integration of cross-link information flow and resource flow, but also deeply promotes the advanced evolution of industrial structure through the construction of intelligent interconnected industrial cooperation system. In short, digitalization of industrial chain can narrow regional labor productivity standard deviation, improve skill matching efficiency, promote the overall rise of wage level and bridge income gap. On the other hand, the marketization of data elements can not only promote the coordinated development of diversified market entities and promote the fair evolution of initial distribution system based on value creation, but

also construct "digital channels" for the supply of innovative elements for resource-constrained, location-marginal and development-lagging areas, thus promoting the transformation and upgrading of local industries to the digital direction, assisting the innovation and development of local industries, and helping villagers to increase their income and become rich, which is an important basis for realizing common prosperity.

1.3 Development Momentum Innovation

Scientific and technological innovation is the core driving force for promoting common prosperity in material life. Substantial advancement of the common prosperity of the material and spiritual life of all the people needs to be supported by a solid economic aggregate and a solid material foundation. Relying on scientific and technological innovation, new quality productivity not only provides cutting-edge technological support such as intelligent algorithm, application of new materials and precision manufacturing for market innovation subjects, increases the added value of total social products and promotes high-quality economic development, but also prevents polarization in continuously optimizing the allocation of production factors and expanding social division of labor by means of scientific and technological innovation, so as to achieve the goal of liberating and developing productive forces to meet the diversified material needs of the people.

Cultural innovation is the internal support to realize common prosperity of spiritual life. On the basis of satisfying material life, people are also willing to pursue spiritual satisfaction. Relying on scientific and technological innovation, the new productivity creates innovative and culturally distinctive cultural and creative works by promoting the deep integration of advanced technologies such as human energy, virtual reality and augmented reality with Chinese excellent traditional culture, inheriting Chinese excellent traditional culture, deepening people's experience and realizing the transformation from "sensory satisfaction" to "spiritual satisfaction". In addition, cultural innovation also affects people's way of life and way of thinking, that is, it helps to broaden people's thinking vision, continuously promote innovation of cultural creative products and services, improve the supply quality of spiritual and cultural products, and help the common prosperity of spiritual life.

2. The practical Path of New Quality Productivity to Promote Common Prosperity

2.1 Scientific and Technological Innovation to Stimulate Endogenous Power for High-quality Development

The key to promoting common prosperity lies in promoting scientific and technological innovation and upgrading scientific and technological innovation. Only by continuously accelerating technological innovation breakthroughs and consolidating the technological foundation can we effectively stimulate the endogenous power of high-quality social and economic development, promote China-style modernization and realize common prosperity. The specific contents include: First, establish a new resource allocation model of "demand-oriented-task-resource agglomeration", focusing on guiding high-quality innovation elements such as financial funds, high-end talents and scientific research

facilities to gather in strategic emerging industries such as integrated circuits, artificial intelligence and biotechnology, aiming at promoting further breakthroughs in key technological bottlenecks and improving China's overall scientific and technological innovation level. Second, deepen the reform of science and technology management system and establish a full-chain innovation transformation mechanism of "basic research + technological breakthrough + industrialization of achievements". Through the establishment of interdisciplinary, cross-field and cross-regional innovation consortium, promote the deep integration of production, learning and application, further strengthen the main position of enterprise innovation, and activate its technological innovation power. At the same time, by establishing risk assessment models for key industries with the help of digital twin technology, the resilience of industrial chains can be improved. Third, strengthen and improve the legal system for intellectual property protection, establish a "green channel" for rapid rights protection, shorten the average processing cycle of cases, and implement innovative culture cultivation projects. Through measures such as setting up "National Innovation Awards" and building a scientist spiritual education base, we will create a good innovation atmosphere, encourage enterprises to actively promote technological research and development and innovation, strengthen scientific and technological innovation empowerment, and promote common prosperity.

2.2 Industrial Transformation and Upgrading, Forming a New Quality Productivity Industry Carrier

Promoting industrial transformation and upgrading and forming new productivity industry carriers are important foundations for promoting common prosperity: firstly, constructing a three-dimensional transformation framework of "digital technology enabling + green process transformation + service mode innovation", for example, establishing carbon footprint tracking system for key industries to further reduce energy consumption per unit output value of energy-consuming industries such as steel and chemical industry; Strengthen the application of 5G+AI technology, promote intelligent and automatic production lines and improve production efficiency; Second, accurately grasp the development characteristics and trends of emerging industries, combine existing resource advantages, continue to support the scale expansion of emerging industries, such as focusing on breakthroughs in key technologies such as perovskite photovoltaic and solid-state batteries, and promote innovation in the field of new energy; establish a national advanced basic material innovation center, promote the improvement of independent guarantee rate of key materials such as superalloys and carbon fibers, and promote innovation in the field of new materials. By promoting the development of emerging industries, creating emerging industry clusters, forming industrial cluster effects and cultivating new economic growth points; thirdly, taking cutting-edge technology breakthroughs and scenario application innovation as the core driving forces, implementing the future industry cultivation plan of "technology source + scenario incubation + ecological cultivation". For example, in the field of life and health, through the construction of "AI+ biotechnology" innovation consortium, promote the clinical transformation of gene therapy, brain-computer interface and other technologies, accelerate the promotion of clinical medical technology innovation, and continuously improve the clinical medical

level of our country; For the field of meta-universe, through the establishment of digital twin city standard system, create a national virtual reality innovation application pilot area, play its leading demonstration role, and accelerate the future industrial development layout. By promoting industrial transformation and upgrading, China's regional industrial economic development level will be continuously and steadily upgraded, providing new momentum for promoting China modernization and realizing common prosperity.

2.3 Building Digital Infrastructure, Laying Infrastructure

In the process of promoting common prosperity for all people, strengthening digital infrastructure construction is an important content. Strengthening the construction of digital infrastructure will not only help improve the level of rural governance, promote rural modernization and revitalize rural industries, but also help promote the integration of urban and rural areas, narrow the gap between urban and rural areas and promote balanced regional development, which is very important for realizing common prosperity. Therefore, first, relevant government departments should play their leading role, consider the regional resource endowment difference and urban and rural development gradient characteristics as a whole from a macro perspective, focus on promoting the cross-regional overall allocation of computing resources, speed up the coverage of computing power dispatching network, and meet the needs of regional network use. Second, at the level of technological innovation, reduce the energy consumption per unit of computing power by focusing on breaking through key fields such as chip architecture, distributed computing and green data center; in terms of management innovation, attract social capital to participate in digital infrastructure construction by implementing new investment and financing modes such as "construction-operation-handover"; In terms of operation mode innovation, by focusing on collaborative optimization of "cloud network edge", we strengthened the operation of intelligent operation and maintenance system, reduced operation and maintenance costs and digital service prices, and laid a foundation for the application of digital infrastructure. Thirdly, relevant departments develop the hybrid training mode of "field classroom + Mobile device," focusing on improving the skills level of rural residents such as e-commerce operation and intelligent agriculture, designing modular and scene-based digital skill certification system, linking training with employment and entrepreneurship support policies, and improving the digital literacy of low-education groups. Fourth, it is necessary to promote the digital transformation and inclusive design of social infrastructure, for example, deploy Internet of Things sensing equipment and intelligent control system, realize real-time monitoring and predictive maintenance of operation status, and ensure the stable operation of traditional infrastructure such as transportation and energy; Focus on promoting aging transformation, developing interactive interfaces such as large print and voice navigation, accelerating innovation and upgrading of public services, and meeting people's material and spiritual needs.

2.4 Develop Digital Culture Industry and Realize Double Prosperity of Material and Spiritual Life

Common affluence mainly includes material affluence and spiritual affluence, among which spiritual affluence is related to the development of digital cultural industry to some extent. By promoting the

development of digital cultural industry, people's spiritual pursuit can be satisfied to a certain extent, people's sense of acquisition and satisfaction can be enhanced, and then material and spiritual life can be realized. Therefore, it is necessary to continue to strengthen the development of digital cultural industry. First, promote the deep integration of 5G, big data, blockchain and other digital technologies with the whole chain of cultural production, dissemination and consumption. For example, by using three-dimensional modeling, virtual reality and other technologies, strengthen the digital protection of cultural relics and ancient books, transform words into touchable historical memories, increase visitors' sensory experience, and assist the living inheritance of traditional history and culture; The second is to use AIGC technology to build a multi-modal content generation platform to support users to customize cultural products such as script creation and music generation through natural language interaction, deepen users' cultural experience, improve their cultural cognition level, and meet users' personalized service needs; The third is to develop a digital cultural service platform that is suitable for aging and in minority language versions, establish a pairing assistance mechanism of "urban cultural institutions + rural cultural stations", and at the same time innovate incentive mechanisms such as the "cultural points system" to enhance the vitality of the digital cultural consumption market for rural residents through digital RMB settlement and cultural consumption. Voucher issuance and other means; Fourth, establish a "sandbox supervision" pilot area for digital cultural industry, and allow new technologies and new formats to be tried first in specific areas on the premise of ensuring the bottom line of cultural safety.

2.5 Talent Driven, Improving the Quality of Human Capital for Common Prosperity

Talents are the basic elements for the new quality productivity to promote common prosperity. By cultivating digital innovative talents, it will help promote the digital transformation and upgrading of all walks of life, promote the innovative development of regional industrial economy, and improve the quality of human capital for common prosperity. First, relevant departments promote practice-oriented teaching models such as "work-study alternation" and "modern apprenticeship system", build national-level training bases for integration of production and education, provide more internship opportunities for vocational college students, strengthen their practical skills, and develop flexible training systems of "job skills menu + online learning points" to accelerate the training of middle and senior technicians. Second, relevant departments should establish a financial guarantee mechanism of "dynamic adjustment of per student funds + special transfer payment" to meet the actual needs of rural education reform for funds and promote the integrated development of urban and rural compulsory education. At the same time, relevant departments support the construction of the collectivized school-running mode of "famous urban schools + rural schools", promote the cross-regional sharing of high-quality teachers and improve the standard rate of rural students by means of technical means such as "double-teacher classroom" and "AI teaching and research assistant". Third, relevant departments should improve competitive scientific research mechanisms such as "uncovering the list" and "horse racing system", establish a talent evaluation system oriented to innovation value, ability and contribution, accelerate the construction of leading scientific and technological talents, train more

young scientific and technological talents, inject fresh blood into the field of scientific and technological innovation in China, and strengthen talent guarantee in scientific and technological innovation. In addition, the introduction of overseas returnees is also an important way to improve the quality of common prosperity human capital. Relevant departments can, starting from the policy level, attract and retain innovative scientific and technological talents through institutional innovations such as "talent visa" and "permanent residence right", construct a strategic talent matrix matching the construction of a modern country, strengthen talent drive, assist industrial innovation and scientific and technological innovation, promote China modernization and realize common prosperity.

Epilogue

To sum up, the new productive forces have laid a solid foundation for promoting China-style modernization and realizing common prosperity through innovation in production factors, production modes and development momentum, and are the core kinetic energy to assist the construction of socialism with China characteristics and sustainable development. In the future, we should continue to adhere to the orientation of "science and technology for good", improve the ethical governance framework while promoting technological breakthroughs, ensure that new productive forces always serve the all-round development of people, and finally realize the two-way rush of "material wealth" and "spiritual wealth".

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