

The spiritual dimensions of new quality productive forces

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Abstract: The spiritual dimensions contained in New Quality Productive Forces are not only the core driving force for its vigorous development but also the key to leading it towards high-quality development. These spiritual dimensions include the scientific spirit of daring to innovate and continuous exploration, the fighting spirit of being unyielding and enterprising in the face of challenges, the collaborative spirit of being innovative and entrepreneurial in the face of challenges, and the spiritual spirit of being a good teacher. These spiritual dimensions include the scientific spirit of daring to innovate and continuous exploration, the fighting spirit of being unyielding and enterprising in the face of challenges, the collaborative spirit of advocating cross-disciplinary cooperation and open sharing, and the dedication of serving society and benefiting humanity. The concept of green development ensures that New Quality Productive Forces, while pursuing economic benefits, is also committed to achieving These spiritual dimensions are interwoven and complement each other, jointly constructing the spiritual core of New Quality Productive Forces. These spiritual dimensions are interwoven and complement each other, jointly constructing the spiritual core of New Quality Productive Forces and injecting it with profound moral depth and a continuous source of development momentum.

Keywords: new quality productive forces; spiritual dimensions; high-quality development; green development

1. Introduction

Throughout the long river of human history, productivity, as the cornerstone of social progress, has always been the core driving force behind civilization's leap forward. From the roar of the steam engine to the weaving of the Internet, every innovation in productivity has profoundly reshaped social structures and human life. Today, we are in an era of unprecedented change, where the rise of New Quality Productive Forces not only signifies the transcendence of traditional productivity paradigms but also heralds the arrival of a new stage of social development. New Quality Productive Forces, which integrate advanced technology, innovative ideas, and the spirit of sustainable development, are leading profound transformations in the global economy and society with their unique charm and powerful driving force.

The essence of New Quality Productive Forces lies in their "newness," which is manifested not only in technological innovations but also in the spiritual orientation and values shift that underlie them. These spiritual orientations, including but not limited to brave challenges to the status quo, continuous exploration of the unknown, persistent pursuit of science, resilience in the face of difficulties, and selfless dedication to society, collectively form the soul of New Quality Productive Forces. They not only provide a continuous source of power for the development of New

Quality Productive Forces but also offer crucial clues for us to understand and grasp the development context of this new era.

In the current context of globalization and informatization, the spiritual orientation of New Quality Productive Forces is particularly important. With the rapid development of technology, human society faces unprecedented opportunities and challenges. How to achieve high-quality economic development, comprehensive social progress, and sustainable environmental protection under the guidance of New Quality Productive Forces has become a major topic before us. Therefore, in-depth research on the spiritual orientation of New Quality Productive Forces is not only theoretically significant but also practically urgent.

This study adopts a literature analysis method, systematically reviewing relevant domestic and international literature to reveal the internal logical structure and mechanism of action of the spiritual orientation of New Quality Productive Forces through systematic organization and in-depth analysis, thereby providing beneficial insights for high-quality development. Specifically, we will comprehensively analyze the spiritual connotation and practical value of New Quality Productive Forces from multiple dimensions, including the spirit of innovation, the spirit of science, the spirit of struggle, the spirit of collaboration, the spirit of dedication, and the concept of green development. Through this research, we hope to contribute new perspectives and ideas to the theoretical research and practical exploration of New Quality Productive Forces, while also providing strong theoretical support for promoting the continuous progress of social civilization.

2. Literature review

2.1. Theoretical framework and connotation analysis of new quality productive forces

The germination and evolution of the concept of New Quality Productive Forces are deeply rooted in the fertile soil of China's socioeconomic development in the new era, representing a precise response to the strategic needs of national development. President Xi Jinping has creatively introduced the forward-looking concept of "New Quality Productive Forces," aiming to grasp the pulse of the global technological revolution and industrial transformation and lead China on a new journey towards high-quality development (Zhou and Xu, 2023). This concept not only uncovers the historical inevitability of transitioning from the industrial era to the digital era but also emphasizes the core role of technological innovation in driving qualitative changes in productive forces (Deng and Wu, 2024).

As an upgraded version of traditional productive forces, New Quality Productive Forces exhibit fundamental differences in terms of constituent elements, structural forms, and functional outputs. Characterized by highly skilled talent, intelligent tools, vast information resources, and intelligent products, they embody a new form of productive forces featuring high technological content, efficient operation, and high-quality output (He, 2024). Through disruptive technological innovations, creative reorganization of production factors, and deep industrial transformation and upgrading, New Quality Productive Forces have shaped an advanced productive force model

characterized by high technology (Mi, 2024). Building on the core elements of traditional productive forces, New Quality Productive Forces have achieved a fundamental leap in productivity through innovation and optimized combination.

The rise of New Quality Productive Forces is not only a direct manifestation of technological progress but also a profound transformation in the paradigm of productive forces. It promotes a significant increase in total factor productivity and accelerates the construction of a modern industrial system. This process requires vigorously cultivating high-quality talent, fostering emerging industries, and promoting the intelligent transformation of traditional industries. This innovative process is reflected not only in the efficient allocation of production factors but also in the flexible adjustment of production relations to better align with and drive the development of productive forces (Zhou and He, 2023).

2.2. Conceptual definition and multidimensional analysis of spiritual dimension

Spiritual dimension refers to the directional guide, motivational source, and value orientation of one's spiritual activities and pursuits. It is both a reflection of individual spiritual demeanor and psychological traits and a concentrated expression of spiritual needs and values within a sociocultural context. Marx's practice perspective profoundly reveals the foundational role of the spiritual dimension in material production and social interaction, viewing it as a crucial element for achieving comprehensive human development (Liu, 2014). Simultaneously, the spiritual dimension is closely linked to individual moral practice, cultural pursuits, and spiritual needs, collectively constructing the deep value dimension of human existence (Vachon et al., 2009).

At the individual level, the spiritual dimension is embodied in one's mental state, personality shaping, and internal driving forces. Ideological and political education emphasizes the importance of mental state for individual growth (Veena Easvaradoss and Rajan, 2013), considering spiritual strength as the core driving force for unlocking potential and shaping noble character (Ye, 2024). At the societal level, the spiritual dimension is manifested through social culture, value systems, and collective consciousness. For example, the spiritual core embodied in university mottos not only reflects the cultural essence of the institution but also promotes comprehensive human development (Sun, 2022).

From a philosophical perspective, the spiritual dimension is closely related to human freedom, comprehensive development, and real-life happiness. Marx's practice perspective provides a solid theoretical foundation, emphasizing the interaction between material production, social interaction, and spiritual life (Weng, 2009). Sociology focuses on analyzing how social structure, cultural traditions, and collective behavior shape individual mental states. For instance, Yan Yangchu's education for the masses integrates Confucian wisdom, Christian spirit, and life value orientation to explore the social significance of the spiritual dimension (Weng, 2009). Psychology, on the other hand, focuses more on individual mental health, emotion management, and self-actualization. Modern university humanities education advocates life

awareness, civic responsibility, and a global perspective, aiming to promote the comprehensive development of students' personalities (Li, 2010).

2.3. Rich connotations of the spiritual dimension of new quality productive forces

The spiritual dimension of New Quality Productive Forces is the soul and driving force behind the development of productive forces in the new era. Its core elements encompass modern productive force ideas such as the spirit of innovation, scientific spirit, entrepreneurial spirit, spirit of collaboration, spirit of dedication, and the concept of green development. These spiritual dimensions are not only the internal driving forces behind the development of New Quality Productive Forces but also the concentrated expression of their value orientations.

First, the spirit of innovation is the core of New Quality Productive Forces, driving a qualitative leap in productivity through revolutionary technological breakthroughs and innovative allocation of production factors. It is key to breaking free from the constraints of traditional growth models (Jia and Dou, 2024). Second, the scientific spirit upholds and develops Marx's view that science is productive, emphasizing the leading role of technological innovation in economic development and striving to enhance the scientific literacy and skill levels of workers (Zhou, 2024). Furthermore, New Quality Productive Forces call for a societal atmosphere of innovation, inspiring people's entrepreneurial spirit to work tirelessly for the efficient operation of productive forces (Jiang and Qiao, 2024). Additionally, the spirit of collaboration is the cornerstone of efficient operation in New Quality Productive Forces, emphasizing the optimized combination and synergistic operation of production factors to achieve high-efficiency and high-quality production goals (Ge et al., 2024). The spirit of dedication is reflected in New Quality Productive Forces' ultimate goal of meeting people's aspirations for a better life, driving social progress and industrial upgrading (Qin and Chen, 2024). Lastly, the concept of green development is an essential part of New Quality Productive Forces, adhering to ecological priority, promoting the harmonious coexistence of economic and social development with environmental protection, and advancing the innovation and application of green technologies to contribute to sustainable development (Qi, 2024).

In summary, New Quality Productive Forces represent not only dual innovations in technology and economy but also a profound transformation in the spiritual dimension. By reviewing the theoretical framework of New Quality Productive Forces and the concept of the spiritual dimension, we find that while New Quality Productive Forces drive socioeconomic development, they also call for matching spiritual traits and value orientations. These spiritual dimensions—the spirit of innovation, scientific spirit, entrepreneurial spirit, spirit of collaboration, spirit of dedication, and the concept of green development—collectively form the spiritual core of New Quality Productive Forces, guiding the development direction of productive forces in the new era. Next, we will delve deeper into the spiritual dimension of New Quality Productive Forces to further reveal its significance and role in the context of the new era.

3. The spirit of innovation: A core driver for the development of new quality productive forces

The New Quality Productive Forces represent an advanced state of productive forces proposed by Chinese President Xi Jinping against the backdrop of the new round of technological revolution and industrial transformation. Driven by innovation, they are characterized by high technology, high efficiency, and high quality. The objective of New Quality Productive Forces is to achieve a qualitative leap in productivity through technological innovation, thereby realizing high-quality development (Xu et al., 2023). The formation and development of New Quality Productive Forces are deeply influenced and supported by the innovative spirit. This spirit not only propels technological advancements and industrial upgrading but also exerts a profound impact on the overall societal development model. Thus, the innovative spirit is regarded as the core driving force for the development of New Quality Productive Forces.

From a theoretical perspective, the central role of the innovative spirit in New Quality Productive Forces can be interpreted through multiple dimensions. Economically, the innovative spirit is a crucial driver of economic growth. By leveraging technological and product innovations, enterprises can develop more competitive products and services, thereby expanding market share and enhancing profitability. This is explicitly embodied in the definition of New Quality Productive Forces, which represents a new, high-quality leap beyond traditional productive forces, driven by technological innovation and fueled by strategic emerging industries and future industries with high efficiency and high-quality capabilities in utilizing and transforming nature (Zhang and Pu, 2023). This demonstrates that the innovative spirit is not only key to the development of New Quality Productive Forces but also a necessary condition for achieving high-quality economic development.

From a sociological perspective, the innovative spirit plays a pivotal role in driving social progress. In today's rapidly evolving technological landscape and continuously shifting societal needs, traditional production and service models are struggling to keep pace and meet increasingly diverse demands. Only through sustained innovative practices can we effectively address social issues and enhance people's quality of life. For instance, innovations in smart home technology have significantly improved the convenience and comfort of home life; the emergence of the sharing economy has played a positive role in reducing resource waste and alleviating environmental pressures. These examples clearly showcase the central role of the innovative spirit in promoting social development and improving people's livelihoods.

Shifting to a cultural perspective, the innovative spirit remains an indispensable driving force in the evolution of human civilization. Throughout history, the innovative spirit has been closely intertwined with the progression of civilization. From ancient breakthroughs to modern technological innovations, the powerful driving force of the innovative spirit is profoundly embodied. It not only stimulates humanity's continuous exploration of new knowledge and technologies but also reshapes our values and lifestyles at a deeper level.

From a practical standpoint, the innovative spirit constitutes the initial impetus for the development of New Quality Productive Forces. Unlike traditional productive forces that rely on material resources and costs, New Quality Productive Forces place greater emphasis on keenly capturing and rapidly responding to dynamic market changes. Only through continuous innovative practices can enterprises secure a competitive edge in the ever-changing market environment. The innovative spirit not only drives enterprises to scale technological heights and develop unique, high-functioning products to satisfy consumers' diverse and growing needs (Chao and Wang, 2024) but also prompts them to innovate in management philosophies and organizational structures to adapt to market volatilities.

Furthermore, the innovative spirit plays a decisive role in enhancing the quality level of New Quality Productive Forces. In the new economic era where quality reigns supreme, only through sustained innovation can the quality and performance of products be significantly improved, thereby gaining widespread consumer recognition. This requires enterprises to make continuous advancements in technological research and development while also innovating across various aspects such as product design, manufacturing, and marketing. This comprehensive and multi-layered innovative spirit helps enterprises establish rigorous quality control systems, thereby enhancing the overall market competitiveness of their products.

Moreover, the innovative spirit is fundamental to promoting green development in New Quality Productive Forces. With the increasingly prominent global ecological and environmental issues, green development has become the inevitable path for New Quality Productive Forces. In this regard, the role of the innovative spirit cannot be underestimated. Through technological innovation and model reform, enterprises can develop more environmentally friendly and energy-efficient products and services, effectively reducing energy consumption and emissions. At the same time, the innovative spirit also inspires enterprises to actively explore feasible paths for a circular economy, aiming to maximize resource utilization and minimize waste emission. This green development concept, led by the innovative spirit, not only benefits the long-term development of enterprises but also creates significant ecological value for society.

Lastly, the innovative spirit serves as the link and bridge for integrating New Quality Productive Forces into the global economic system. In the context of globalization, the development of New Quality Productive Forces cannot be confined to the domestic market alone. Only through continuous innovation can a competitive edge be gained in international competition. The innovative spirit motivates enterprises to broaden their international horizons, deeply understand global market dynamics and trends, and develop high-quality products and services that meet international standards. At the same time, the innovative spirit also encourages enterprises to continuously enhance their technological strength and innovation capabilities through international exchanges and cooperation, thereby better integrating into the global economic system and achieving international development.

To fully harness the core role of the innovative spirit in New Quality Productive Forces, the joint efforts and collaboration of enterprises, governments, and all sectors of society are required. Enterprises should foster a strong sense of innovation and actively cultivate high-quality innovative talents; governments should increase

support for innovation and create a favorable innovation environment; and all sectors of society should actively disseminate and promote the concept of innovation to encourage more people to engage in innovative practices. Only in this way can we fully unleash the core role of the innovative spirit in the development of New Quality Productive Forces.

4. The spirit of science: Building blocks for the development of new quality productive forces

The scientific spirit, a spiritual wealth condensed by humanity in the pursuit of objective truth and exploration of unknown territories, plays a pivotal role in driving the development of New Quality Productive Forces. It serves as both the driving force for technological innovation and industrial progress, as well as a catalyst for the development of social civilization (Song, 2018).

Firstly, the scientific spirit is essentially about pursuing truth and adhering to the principle of seeking truth from facts. In the era of New Quality Productive Forces, the rapid development of technology and the increasing complexity of problems require us to adopt more rigorous and scientific methods to explore solutions. The scientific spirit emphasizes proceeding from reality, digging deep into and following objective laws, providing a solid scientific foundation for the development of New Quality Productive Forces. This spirit inspires researchers to engage in practical and empirical research, ensuring that every technological innovation is rooted in the soil of science.

Secondly, the scientific spirit advocates critical thinking, encouraging challenges and question to existing theories and concepts. In the development process of New Quality Productive Forces, we not only need to inherit and develop existing scientific knowledge but also dare to challenge traditional beliefs. Critical thinking allows us to carefully evaluate various information and viewpoints, leading to wise decisions (Xu et al., 2024). This way of thinking, in the practice of New Quality Productive Forces, helps us identify and solve problems, driving continuous technological innovation and industrial optimization.

Furthermore, the scientific spirit promotes the ideals of open cooperation and knowledge sharing. In the context of deepening globalization, it is difficult for any country or individual to face complex technological challenges alone. The scientific spirit calls for us to transcend geographical and disciplinary boundaries, strengthen international cooperation and exchange, and jointly promote technological progress. Through open cooperation, we can fully utilize global resources, accelerating the pace of development of New Quality Productive Forces. At the same time, knowledge sharing also helps to enhance the overall technological level of society, injecting new vitality into sustained economic growth.

In addition, the scientific spirit highlights the value of innovation and exploration. In the era of New Quality Productive Forces, innovation and exploration have become the core forces driving development. The scientific spirit inspires us to boldly try new ideas and methods, continuously breaking through technological boundaries, and achieving qualitative leaps in productivity. This spirit encourages researchers and entrepreneurs to pursue excellence, driving New Quality Productive Forces towards higher levels and broader fields.

The scientific spirit has an immeasurable and far-reaching impact on promoting the development of New Quality Productive Forces and the progress of society at large. It has not only spurred technological prosperity and economic vitality but also significantly improved people's living standards. More importantly, the scientific spirit has invisibly created a more open, tolerant, and creative social environment, laying a solid foundation for humanity's all-round progress.

However, nurturing and promoting the scientific spirit is an arduous task that requires time and patience. To cultivate this fertile soil, we must deeply cultivate it from multiple dimensions such as education, culture, and policy. In education, we should prioritize cultivating students' scientific literacy and critical thinking abilities, igniting their inner spark of innovation and desire for exploration. In cultural construction, we should strive to create a social atmosphere that respects science and advocates innovation, providing a free and relaxed creative space for scientific talents. In policy formulation, the government needs to further enhance support for scientific research and innovation, accelerating the commercialization and practical application of scientific and technological achievements, thereby boosting the leapfrog development of New Quality Productive Forces.

To further reveal the role of the scientific spirit in the development of New Quality Productive Forces, we can conduct in-depth analysis from the following dimensions:

One is the level of technological innovation. In the development of New Quality Productive Forces, technological innovation occupies a core position, and the scientific spirit provides continuous motivation for technological innovation. Researchers continuously explore new technological fields with an attitude of pursuing truth, driving technological breakthroughs and innovations. At the same time, they use critical thinking to examine the limitations of existing technologies and propose improvement plans (Wu, 2022). It is this scientific spirit that drives the continuous progress of technology and injects strong momentum into the development of New Quality Productive Forces.

The second is the level of industrial upgrading. Industrial upgrading is an important hallmark of the development of New Quality Productive Forces, and the scientific spirit plays a key role in industrial upgrading. Through open cooperation and knowledge sharing, enterprises can fully utilize global resources and advanced technologies to promote industrial upgrading and transformation. At the same time, driven by innovation and exploration, enterprises can develop products and services that are more competitive in the market, enhancing the added value of the industry. Therefore, the scientific spirit is an indispensable factor in driving industrial upgrading.

The third is the promotion of social progress. The power of the scientific spirit not only permeates the development of New Quality Productive Forces but also plays a pivotal role in driving the entire society forward. By vigorously advocating the scientific spirit, we can create a more rational, open, and creative social environment. In such an atmosphere, people's creativity and innovative spirit are fully stimulated, injecting a continuous stream of motivation into the progress and prosperity of society. In addition, the widespread dissemination of the scientific spirit also helps to improve the public's scientific literacy (Jiang, 2015), enabling them to use scientific thinking

and methods to examine and solve problems, which undoubtedly lays a solid foundation for social harmony, stability, and sustainable development.

Looking ahead, we should continue to vigorously promote the scientific spirit to drive the development of New Quality Productive Forces. The government should increase support for scientific research and innovation, providing researchers with a good innovation environment and resource support. Enterprises should focus on technological innovation and industrial upgrading, enhancing the technological content and market competitiveness of their products and services. The whole society should jointly create a cultural atmosphere that respects science and advocates innovation, laying a solid foundation for the cultivation and development of the scientific spirit. In summary, in the era of New Quality Productive Forces, we must deeply recognize and grasp the importance of the scientific spirit, strive to cultivate and promote this spirit, and contribute wisdom and strength to the development of New Quality Productive Forces and the progress of society.

5. The spirit of struggle: Forging a strong backing for the development of new quality productive forces

General Secretary Xi Jinping has emphasized on several occasions that the new era is the era of strugglers, and that the spirit of struggle is the source of power that drives the Chinese nation to struggle tenaciously, struggle arduously, struggle successively, and struggle forever, and it is the spiritual genealogy that promotes the development and growth of Chinese culture, the glittering spirit of the Chinese nation that shines brightly in the world, and the traditional virtues of the Chinese nation that will shine through the annals of history (Liu, 2022). Therefore, the spirit of struggle is not only the internal motivation for individual growth, but also an important driving force for the overall progress of society. In the context of the new era, we should continue to carry forward and pass on this spirit, aiming at realizing the Chinese dream of the great rejuvenation of the Chinese nation (Yu, 2023).

From the perspective of the individual, the spirit of struggle is an indispensable internal motivation in the growth of every person. The era of new productivity provides unprecedented opportunities for individuals to develop, but it is also accompanied by endless challenges. In this fast-changing environment, only those who uphold the spirit of struggle, bravely face challenges and constantly learn to improve themselves can stand out in the fierce competition. The spirit of struggle can not only help individuals overcome difficulties and achieve self-breakthrough, but also stimulate their creativity and innovation, thus contributing to the development of New Quality Productive Forces (Sun, 2021). At the level of teamwork, the spirit of struggle also plays a pivotal role. The development of New Quality Productive Forces often needs to cross multiple fields and integrate multiple resources, which puts higher requirements on teamwork. A team full of the spirit of struggle can form a strong cohesion and combat effectiveness, and jointly face difficulties and overcome them. In such a team, each member is able to realize his or her maximum potential and contribute to the team's success. At the same time, the spirit of struggle can also inspire mutual help and common progress among team members, thus creating a positive team culture (Nie, 2022).

Furthermore, from a broader perspective, the spirit of struggle is undoubtedly the core engine driving the continuous progress of society. In a society full of the spirit of struggle, people are full of vitality and positive, and such an environment breeds courageous exploration of unknown fields and continuous innovation and breakthroughs, which in turn boosts the pace of scientific and technological advancement and the overall development of society. At the same time, the spirit of struggle can ignite people's patriotic feelings, awaken their sense of social responsibility, and inspire them to devote themselves more enthusiastically to the construction and development of the country, and to contribute their strength to the great rejuvenation of the nation. The whole society immersed in this atmosphere of struggle will undoubtedly greatly enhance the overall strength and international competitiveness of the country, and at the same time create a better development space and opportunities for each individual.

In addition, under the wave of the new era, the spirit of struggle has been injected with richer and deeper connotations. It not only draws on the traditional essence of diligence, courage and self-improvement, but also integrates the spiritual qualities of courage, diligence and selfless dedication advocated by the new era (Yang, 2021). These new elements together depict the practical, contemporary and transcendent nature of the spirit of struggle. In other words, we need to constantly refine and improve the spirit of struggle in our practical actions to ensure that it keeps pace with the times, and at the same time, we need to be brave enough to challenge ourselves and pursue excellence.

Practicality means that the spirit of struggle needs to be constantly sharpened and enhanced in practice. The so-called practicability requires us to deeply root the spirit of struggle in our daily work and life, only in this way can its true value and power be manifested. As for the epochal nature, it urges us to follow the pulse of the times and constantly adjust our own goals and paths according to the needs and changes of the times. As for transcendence, it encourages us to break through our personal limitations and make unremitting efforts to realize higher ideals and dreams.

Of course, in order to cultivate and promote the spirit of struggle in the new era, we need to start from many aspects. First, it is necessary to strengthen the theoretical interpretation of the spirit of struggle, play the role of the exemplary role of the struggle model, and build a platform for the education of the spirit of struggle, as a way to guide the new generation to establish the will to struggle, increase the ability to struggle, and practice the behavior of struggle (Peng, 2019). Secondly, it is necessary to fully carry out the education of ideals and beliefs, give full play to the subjective initiative of struggle, always adhere to the goal of struggle on the basis of respecting the laws of social development, and create a public opinion atmosphere of struggle to continue the Chinese spirit. In addition, it is also necessary to deepen the practice to sharpen the spirit of struggle, and it is even more necessary to create a good social atmosphere to cultivate the spirit of struggle.

In short, in the era of New Quality Productive Forces, the spirit of struggle embodies distinctive practicability, epochally and transcendence, and is an inevitable choice in the face of the great change that has never occurred in the world, a successful code for the Party to maintain its advancement and purity, and a realistic requirement for realizing the great rejuvenation of the Chinese nation. Therefore, vigorously

carrying forward the spirit of struggle is of great significance in promoting the construction of socialist modernization and realizing the great rejuvenation of the Chinese nation.

6. The spirit of collaborative: An international synergy engine driving the development of new quality productive forces

In the tide of globalization, the broadening of international horizons and the deepening of international cooperation have become the core driving forces for the development of New Quality Productive Forces. Advocating and practicing the collaborative spirit holds immeasurable strategic value for enhancing national competitiveness and promoting global economic stability and prosperity.

Firstly, embracing a global perspective is an inevitable choice for adapting to globalization. With the accelerated flow of global markets, technology, capital, and other elements, having a broad global perspective is crucial. It not only helps us accurately capture international economic dynamics and adjust development strategies but also enables us to seize opportunities in fierce competition and effectively address external challenges. In the realm of New Quality Productive Forces, this means closely monitoring the technological frontier, deeply understanding diverse needs, and actively participating in global competition and cooperation to enhance innovation capabilities and market competitiveness.

Secondly, actively expanding international cooperation is a crucial path for achieving global common development. International cooperation facilitates technology transfer and knowledge sharing, helping countries jointly address global challenges (Dai and Zhang, 2018). In the development of New Quality Productive Forces, the importance of international cooperation is increasingly prominent. Through in-depth cooperation, countries can jointly develop new technologies, launch innovative products, promote industrial upgrading and structural optimization, and achieve complementary advantages and mutual benefit. Furthermore, international cooperation promotes global talent cultivation, cultural exchanges, and people-to-people connectivity, contributing to global peace and development.

In advancing globalization, pursuing win-win goals holds profound significance. The win-win concept embodies principles of equality, mutual benefit, and cooperation, aligning with the requirements of globalization. Countries should abandon zero-sum game thinking and instead pursue common development and prosperity. Through comprehensive cooperation, including policy communication, facility connectivity, trade smoothness, financial integration, and people-to-people connectivity, they should jointly build an open global economic system and achieve sustainable development.

Meanwhile, promoting the collaborative spirit is an indispensable driving force for globalization. The collaborative spirit emphasizes teamwork, mutual support, and common progress, aligning closely with the development needs of New Quality Productive Forces. Countries should strengthen multi-dimensional collaboration, including policy coordination, information sharing, and technological cooperation, to jointly address challenges and share development opportunities. By promoting the

collaborative spirit, the creativity and innovation of people worldwide can be inspired, driving New Quality Productive Forces to new heights.

From a theoretical perspective, concepts such as opening global horizons, expanding international cooperation, pursuing win-win goals, and promoting the collaborative spirit are closely linked to Marxism's worldview of history, internationalism, and core socialist values. These theories provide profound insights and powerful guidance for the development of New Quality Productive Forces and offer scientific guiding principles for the globalization process.

At the practical level, effective measures should be taken to fully implement these concepts. This includes strengthening the construction of international exchange and cooperation mechanisms, promoting multilateral and bilateral in-depth cooperation, increasing openness to the outside world, optimizing the foreign investment environment, valuing talent cultivation and technological innovation to enhance core competitiveness, and actively participating in the formulation of international rules and the reform of the global governance system (Kong, 2023) to promote the construction of a community with a shared future for mankind.

However, the globalization process also faces numerous challenges and risks, such as trade protectionism, technological barriers, and geopolitical risks. Therefore, it is necessary to maintain a calm and prudent attitude, flexibly respond to external challenges and risks, and ensure the steady advancement of globalization. At the same time, attention should be paid to the differentiated impacts of globalization on different countries and regions, striving to establish a fairer and more reasonable new international economic order.

Furthermore, from a historical perspective, exchanges and mutual learning among different civilizations have been important drivers of human social progress. In today's globalized context, the values of openness and cooperation remain irreplaceable. By learning from the development experiences of other countries and regions, vitality and momentum can be injected into New Quality Productive Forces.

In the face of globalization trends, the interests of countries are closely interconnected, and the need to jointly address global challenges is more urgent. This requires a shift from traditional development thinking, moving from a zero-sum game to a cooperative and win-win model. By strengthening international cooperation, jointly developing new technologies, and exploring new markets, the sustained and healthy development of the global economy can be promoted. At the same time, attaching great importance to and promoting the collaborative spirit in the globalization process, advocating teamwork, mutual support, and the concept of common progress, is crucial for the development of New Quality Productive Forces. It helps countries work together to address technological challenges and market challenges, driving the continuous innovation and development of New Quality Productive Forces.

7. The spirit of dedication: The core value pursuit of new quality productive forces development

The spirit of dedication, a concept that condenses the noble sentiments of human society, has always been an important force in promoting the progress of civilization

and the development of history. In the context of the rapidly changing New Quality Productive Forces, the spirit of dedication not only represents the height of individual morality, but has also become a spiritual lighthouse and value benchmark to lead the continuous breakthrough of the New Quality Productive Forces.

In essence, the spirit of dedication embodies a voluntary and unrewarding noble quality. It transcends the boundaries of personal interests, sublimates into selfless contributions to society and others, and demonstrates a grand sentiment of pursuing a higher spiritual realm (Song, 2016). In the journey of the development of New Quality Productive Forces, the spirit of dedication is like a bright light, illuminating the path of people's courageous exploration and continuous innovation.

From the perspective of values, dedication undoubtedly constitutes the core value orientation of the development of the New Quality Productive Forces. The evolution of the New Quality Productive Forces focuses not only on economic growth and technological innovation, but also on the realization of the comprehensive, balanced and sustainable development of human society. The selflessness and altruism inherent in the spirit of dedication coincide with the ultimate goal of the development of the new quality of productive forces. It leads people to break away from the shackles of personal interests, focus on the overall well-being of society, and work together to build a brighter social future (Ma Biwen, 2018).

Dedication plays a pivotal role in the tide of new qualitative productivity. On the one hand, it ignites the fire of innovation and stimulates the desire to explore the unknown. In the face of technical problems and challenges, those with dedication can always rise to the occasion and spare no effort to find solutions. Their perseverance and dedication are like a steady stream of power that drives the New Quality Productive Forces forward. On the other hand, dedication is also the glue of teamwork and social harmony. Under the guidance of a common goal, people can support each other and make progress hand in hand, thus forming an indestructible team force. This team spirit not only dramatically improves work efficiency, but also injects positive energy into social harmony and stability.

In addition, the spirit of dedication in the development of New Quality Productive Forces is also reflected in the initiative to take on social responsibility. With the rapid progress of science and technology and the significant increase in productivity, human beings are increasingly concerned about the environment, resources and other issues. Enterprises and individuals with a spirit of dedication will consciously shoulder their social responsibility and commit themselves to promoting sustainable development and environmental protection. They are leading the new productivity toward a greener, more environmentally friendly direction, aiming to create a more livable world for future generations.

However, the cultivation and promotion of the spirit of dedication is a long-term and systematic project that requires us to start from multiple dimensions, such as education, culture and system, to jointly provide fertile soil for the cultivation of the spirit of dedication. In the field of education, we should focus on cultivating students' sense of social responsibility and civic awareness, and stimulate their spirit of dedication and sense of collective honor. In the cultural construction, we should advocate the social culture of selflessness and helping others to create a favorable social atmosphere for the spirit of dedication. At the level of institutional design, the

government and enterprises should work together to establish a sound incentive mechanism to encourage people to actively participate in the development of new quality productive forces and contribute to the progress of society.

At the same time, we should also realize that the spirit of dedication does not require everyone to make earth-shattering achievements, but to advocate that everyone in their respective positions conscientiously, shine and heat. Whether it is deep plowing scientific research scholars, pioneering entrepreneurs or hard-working ordinary laborers, as long as everyone can carry forward the spirit of dedication to the development of the new quality of productive forces to add bricks and mortar, then the whole society will certainly glow more eye-catching luster.

In order to analyze more deeply the core position and value connotation of dedication in the development of New Quality Productive Forces, we can further explore the following dimensions:

First, the spirit of dedication plays a vital role in science and technology innovation as a key force in promoting New Quality Productive Forces. Those scientific research workers who harbor the spirit of dedication can endure loneliness, resist temptation, and devote themselves to scientific research. In order to explore the frontiers of science, they have paid a great deal of effort to overcome technical difficulties. It is this perseverance and dedication to promote scientific and technological innovation breakthroughs and progress.

Secondly, dedication also plays an indispensable role in the critical phase of industrial upgrading. Enterprise leaders and managers with the spirit of dedication will actively introduce cutting-edge technology and management experience to promote the continuous innovation and development of the enterprise. Their concern for employee welfare, environmental protection and fulfillment of social responsibility lay a solid foundation for long-term development. This spirit of dedication not only contributes to the steady growth of the enterprise, but also provides solid support for the optimization and upgrading of the entire industrial structure.

Thirdly, the spirit of giving has a profound impact on personal growth, enterprise development and even social harmony. Those who have the spirit of giving will spontaneously join the social welfare and volunteer activities to provide assistance and support for the disadvantaged. Their good deeds not only transmit positive energy but also promote social unity and harmony. In the context of the rapid development of the new quality of productive forces, we need more people with the spirit of dedication to participate in the construction of society to build a harmonious and inclusive society to contribute their own strength.

Therefore, the spirit of dedication has an irreplaceable core status and value connotation in the development of New Quality Productive Forces. It is not only an important driving force for scientific and technological innovation and industrial upgrading, but also a key factor for personal growth, enterprise development and social harmony. In the context of the rapid development of the New Quality Productive Forces, we need more people with the spirit of dedication to participate in the construction of society, and contribute to the construction of a harmonious and inclusive society.

8. Green development concept: The core guide for sustainable development of new quality productive forces

The green development concept serves as the core guide for the sustainable development of New Quality Productive Forces, with its significance lying in achieving the harmonious unity between high-quality economic development and environmental protection. New Quality Productive Forces, characterized by efficiency, environmental protection, and innovation, align closely with the inherent requirements of green development (Rao, 2024). Therefore, deepening the understanding of the green development concept and putting it into practice is crucial for promoting green innovations in development models.

The green development concept emphasizes the harmonious unity between environmental protection and economic development, embodied in the idea that “lucid waters and lush mountains are invaluable assets,” which not only recognizes the economic value of natural resources but also profoundly reflects their ecological value. Adhering to the path of ecological priority and green development, and deeply integrating the green development concept into all aspects of New Quality Productive Forces, is an inexorable requirement for entering a new stage of development, implementing new development concepts, and building a new development paradigm.

To achieve green transformation, accelerating green technological innovation and its promotion and application is the top priority. Technological innovation is a powerful engine for green transformation. With the help of cutting-edge green technologies, resource utilization can be significantly improved, and energy consumption and emissions can be reduced, thus achieving a win-win situation for both the economy and environmental protection. At the same time, vigorously promoting advancements in green manufacturing, through the adoption of environmentally friendly materials, optimization of production processes, and enhancement of product environmental performance, will facilitate green innovations in manufacturing (Yang et al., 2022).

Furthermore, the development of green services and green energy industries is also of great importance. Green services can not only provide more environmentally friendly and efficient services but also assist in the green transformation of related industries. For example, by promoting energy-saving and environmentally friendly service concepts, energy consumption and environmental pollution during service processes can be effectively reduced. Meanwhile, with the profound adjustment of the global energy structure, we should actively develop clean energy sources such as solar and wind power to reduce dependence on fossil fuels, thereby lowering carbon emissions and contributing to the achievement of carbon peaking and carbon neutrality goals.

Governments play a pivotal role in promoting green development. They should continuously improve the policy framework supporting green and low-carbon development, guiding enterprises and social capital to invest in green areas through financial subsidies, tax incentives, and other means (Xu et al., 2023). Additionally, governments need to lead the way in green finance, promoting innovations in green financial products and services to provide solid financial support for green development.

To build a green and low-carbon circular economic system, we should also focus on developing green and low-carbon industries and supply chains. By adjusting industrial structures, promoting environmental protection technologies, and improving resource utilization efficiency, we can effectively reduce carbon emissions and push the entire economic system towards green development. At the same time, building efficient ecological green industrial clusters is also a key aspect. By aggregating green industrial resources, optimizing layouts, and strengthening collaboration, we can enhance the competitiveness and innovation capacity of green industries.

Across society, we need to vigorously advocate for a green and healthy lifestyle. By strengthening environmental education, promoting green consumption, and encouraging green travel, we can guide the public to establish green living concepts and create a strong atmosphere for everyone to participate in green development. At the same time, we should strengthen international cooperation and exchanges, draw on international advanced experiences and technologies, and jointly promote green development. Emphasis should be placed on talent cultivation and introduction to provide a solid talent foundation for green development. Supervision and evaluation should be strengthened to ensure the effective implementation and outcome assessment of green development policies.

Looking ahead, market mechanisms will play an increasingly important role in green development. We should establish a sound green market system, promote the marketization of green products and services, and guide consumers to choose greener and more environmentally friendly products and services. At the same time, we should strengthen the development of the green financial market, providing diversified financing channels and financial services for green industries to support their vigorous development.

In summary, the green development concept is a key guiding ideology leading New Quality Productive Forces towards sustainable development in the new era. We must profoundly understand and actively practice this concept, and through the coordinated efforts of governments, enterprises, and the public, jointly promote the green transformation and upgrading of New Quality Productive Forces, in order to achieve the harmonious coexistence of the economy, society, and the environment, and create a better future for humanity.

9. Conclusion

This study delves into the spiritual dimensions of New Quality Productive Forces, unveiling the pivotal roles of the innovative spirit, scientific spirit, fighting spirit, collaborative spirit, dedication, and green development philosophy in the advancement of New Quality Productive Forces. These spiritual dimensions not only propel the vigorous development of New Quality Productive Forces but also profoundly reflect the in-depth pursuit of developmental ideals and value orientations of an era and a nation. The innovative spirit, as the leading force of New Quality Productive Forces, drives technological research and industrial upgrading to break through traditional constraints, injecting new momentum into socio-economic development. The scientific spirit, through its relentless pursuit of objective truth, lays a solid theoretical

foundation for the development of New Quality Productive Forces and uncovers their inherent essential laws.

Furthermore, the fighting spirit demonstrates the tenacity and forward-looking attitude of New Quality Productive Forces in overcoming difficulties, serving as a crucial guarantee for achieving significant breakthroughs. The collaborative spirit fosters the deep integration of New Quality Productive Forces with global innovation networks, strengthens cross-disciplinary cooperation and multi-party win-win situations, and promotes their internationalization process. Dedication embodies the social responsibility and commitment of New Quality Productive Forces, not only enhancing product and service quality but also achieving dual growth in economic and social benefits. The green development philosophy, as the core of the sustainable development of New Quality Productive Forces, emphasizes the importance of environmental protection responsibility and green transformation, aiming to achieve harmonious coexistence among the economy, society, and the environment.

Although this study provides a comprehensive analysis of the spiritual dimensions of New Quality Productive Forces, it is essential to recognize its limitations. For instance, this study primarily adopts literature review and theoretical analysis methods, which may to some extent influence the universality and accuracy of the conclusions. Future research could explore more diversified research methods, such as case studies and empirical research, to more thoroughly validate and deepen the conclusions of this study. Meanwhile, as New Quality Productive Forces continue to evolve, their spiritual dimensions may exhibit new changes and development trends. Therefore, maintaining continuous attention in this field and updating research perspectives in a timely manner are of great significance for guiding theory and practice.

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