



Guiding Opinions of the State Council on Promoting the Technological Transformation of Enterprises

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The people's governments of all provinces, autonomous regions and municipalities directly under the Central Government, ministries and commissions under the State Council, and agencies directly under the State Council: Technological transformation is an investment activity in which enterprises adopt new technologies, new processes, new equipment and new materials to transform and upgrade existing facilities, process conditions and production services, eliminate backward production capacity, and achieve connotative development, which is an important way to achieve technological progress, improve production efficiency, promote energy conservation and emission reduction, and promote safe production. Promoting the technological transformation of enterprises is of great significance to optimizing the investment structure, cultivating consumer demand, promoting independent innovation, accelerating structural adjustment, and promoting industrial upgrading, and is an important measure to promote industrial transformation and development mode and achieve scientific development. For a long time, all regions, departments and enterprises have actively implemented the decision-making and deployment of the Party Central Committee and the State Council, vigorously implemented the technological transformation of enterprises, achieved obvious results, greatly improved the technical level of the industry, greatly enhanced the comprehensive competitiveness of enterprises, and played an important role in promoting the sustainable and healthy development of China's industry. At present, the internal and external environment of China's economic development is undergoing profound changes, the new period and the new situation have put forward higher requirements for technological transformation, and there are still problems in the technological transformation of enterprises that need to be deepened, long-term mechanisms need to be established urgently, the direction of investment lacks effective guidance, and the management system needs to be further rationalized. The following guiding opinions are hereby put forward on further accelerating the technological transformation of enterprises:

1. General requirements

Guided by Deng Xiaoping Theory and the important thinking of "three represents", we will thoroughly implement the Scientific Outlook on Development, take accelerating the transformation of economic development mode as the main line, promote industrial transformation and upgrading, and enhance industrial competitiveness as the main direction, take enterprises as the main body, market-oriented and innovation as the driving force, improve policies, strengthen management, enhance enterprises' technological innovation capabilities, accelerate the industrialization of innovation achievements, accelerate the transformation and upgrading of traditional industries, cultivate and develop emerging industries, and comprehensively improve the quality and efficiency of industrial development.

In the new era, the technological transformation of enterprises should closely focus on the new requirements of industrial development, pay more attention to promoting the enhancement of technological innovation capabilities and the industrialization of innovative achievements, and enhance the core competitiveness of the industry; Pay more attention to energy saving, consumption reduction, emission reduction, pollution control, and promote green development; Pay more attention to the integrated application of information technology, and promote the deep integration of informatization and industrialization; Pay more attention to the capacity building of industrial public services and consolidate the industrial foundation; Pay more attention to industrial transfer and agglomeration development, and optimize industrial layout.

To promote the technological transformation of enterprises, it is necessary to adhere to the combination of market leadership and government guidance, the combination of technological innovation and technological transformation, the combination of transforming traditional industries and the development of emerging industries, and the combination of highlighting key points and comprehensively upgrading. By 2015, the proportion of investment in technological

transformation in industrial investment will be significantly increased, the independent innovation ability of enterprises will be significantly improved, the output value rate of new industrial products will be significantly improved, the proportion of advanced production capacity, resource and energy utilization efficiency, clean production and enterprise safety level will be significantly improved, the policy environment and institutional mechanism for promoting technological transformation of enterprises will be more sound, and the information application of key industries and backbone enterprises will reach the international advanced level.

II. Key Tasks

- (1) **Promote technological innovation and industrialization of scientific and technological achievements.** In view of key areas and weak links, break through a number of common key technologies, accelerate the industrialization and application of advanced technologies, improve the domestic support capacity of basic raw materials and basic components, major equipment and core technologies, improve the level of research and formulation of technical standards, and promote the improvement of technological innovation capabilities. Encourage and support the transformation and upgrading of innovation carriers such as enterprise technology centers, engineering laboratories, and major scientific and technological infrastructure, cultivate a group of technological innovation demonstration enterprises with good R&D foundation, many intellectual property rights and strong industry driving force, strengthen open cooperation, and enhance enterprise innovation capabilities. Promote the establishment of a collaborative innovation system with enterprises as the main body and the combination of production, education and research, actively explore models such as leading industrial development with technical standards and entrepreneurship around innovative achievements, promote the close integration of scientific research and production, give full play to the creativity and enthusiasm of market players, and accelerate the industrialization of scientific and technological achievements.
- (2) **Raising the level of equipment.** Accelerate the elimination of backward process technology and equipment, and promote the application of automation, digitalization, networking, intelligence and other advanced manufacturing systems, intelligent manufacturing equipment and large-scale complete sets of technical equipment. Support key enterprises to aim at the world's cutting-edge technology, accelerate equipment upgrading and transformation, and promote technology and equipment in key fields to reach the international advanced level. Implement equipment innovation projects and continuously improve the technical level of equipment manufacturing industry.
- (3) **Promote green development.** Implement technological transformation such as improving industrial energy efficiency, cleaner production, and comprehensive utilization of resources. Accelerate the promotion of advanced energy-saving, water-saving and material-saving technologies and processes at home and abroad, promote the green design and development system of industrial products, and improve the efficiency of energy and resource utilization. Increase the penetration rate of mature and applicable cleaner production technologies. Strengthen the prevention and control of heavy metal and hazardous chemical pollution. Support the recycling of industrial waste, waste products and materials, as well as the comprehensive utilization of low-grade, co-associated mineral resources, and actively develop the circular economy and remanufacturing industry. Cultivate a group of resource-saving and environment-friendly demonstration enterprises.
- (4) **Optimize product structure.** Accelerate product upgrading, improve product technology content and added value. Promote lean manufacturing, improve process flow, strengthen process control, and improve manufacturing level. Improve inspection and testing methods, implement advanced quality management, and improve product quality. Develop advanced production capacity, increase product varieties, and improve the contribution rate of new products. Strengthen brand building and cultivate a number of internationally renowned brands.
- (5) **Promote the integration of informatization and industrialization.** Deepen the application of information technology in R&D design, manufacturing, marketing management, recycling and other aspects of the product life cycle, accelerate the promotion and application of key common technologies such as modern production management systems, and support enterprises to popularize the application and comprehensive integration of management information systems such as manufacturing execution, resource planning, and customer relations. Promote the embedded application of information technology in industrial products and improve the intelligence level of industrial products. Support the construction of information service platforms for enterprises, regions and industries.
- (6) **Deepen military-civilian integration.** Improve core capabilities such as overall design, assembly testing and system integration, and promote the development of military-civilian integrated industries such as nuclear energy, ships, aircraft, electronic information, and civil explosive equipment. Give full play to the advantages of military technology, and guide the development of emerging industries such as energy conservation and environmental protection, new materials, new energy, security and anti-terrorism equipment that are the same source or process

similar to military technology. Support the industrialization and mutual transformation of dual-use technologies, and encourage the application of advanced and mature civilian technology and equipment in the fields of science, technology and industry for national defense.

(7) Promote safe production. Implement the technological transformation of high-risk industrial products, production processes and equipment, and strengthen the security of industrial control systems. Accelerate the upgrading of technical equipment such as safety production management and monitoring and early warning systems, emergency handling systems, dangerous goods production, storage and transportation equipment and facilities, and improve the intrinsic safety level of industrial enterprises.

(8) Raise the level of industrial agglomeration. Encourage the development of industrial agglomeration, guide enterprises, projects and elements to concentrate on existing parks and bases, promote the collaborative transformation of leading enterprises and supporting enterprises, support the technological transformation of the whole industrial chain in R&D design, manufacturing, marketing services and other links, and promote the development of industrial layout in the direction of industrial support, professional collaboration, factor intensification and efficiency, and ecological environmental protection.

(9) Strengthen the establishment of public service platforms. Support the upgrading and transformation of public service platforms such as R&D and design, quality certification, testing and testing, information services, and comprehensive utilization of resources in key industrial parks. Integrate relevant resources, and build a number of industrial technology innovation and service platforms, quality and safety technology demonstration platforms, enterprise creditworthiness information management platforms, comprehensive information service platforms, and so forth for key industries. Increase support for small and medium-sized enterprises to carry out technological transformation, and establish and improve a number of small and medium-sized enterprise public service platforms and productivity promotion centers.

III. Safeguard Measures

(1) Strengthen policy planning guidance. Scientifically formulate development plans for key industries and fields, improve industrial policies for key industries, and strengthen the guidance of planning and industrial policies for technological transformation. Research and formulate investment guidelines for technological transformation, and release annual key project-oriented plans. Improve the industrial technical standard system, carry out transformation actions such as industrial product safety, energy efficiency, environmental protection, hygiene and reliability compliance in key industries and key fields, and improve the incentive and constraint mechanism for technological transformation.

(2) Increase financial support. Give play to the guiding role of government investment in social investment, the central and local finances will further increase support, increase investment in technological transformation, and focus on supporting technological transformation in key areas and key links of industrial transformation and upgrading. Continuously innovate and optimize fund management methods, flexibly use a variety of support forms, and improve the efficiency of the use of fiscal funds.

(3) Improve preferential tax policies. Make good use of the existing relevant preferential tax policies to support the technological transformation of enterprises, including the input VAT amount incurred by general taxpayers purchasing or self-made machinery and equipment can be deducted from the output tax according to regulations; The accelerated depreciation of fixed assets stipulated in the Enterprise Income Tax Law, the investment amount purchased for environmental protection, energy and water saving, safe production and other special equipment can be subject to tax credit according to a certain proportion, R&D expenses are deducted from income tax, technology transfer is exempted from enterprise income tax, and enterprises recognized as high-tech enterprises enjoy enterprise income tax incentives; Advanced equipment required for projects encouraged by the State and not produced domestically shall be exempted from import tariffs within the prescribed range; Domestic enterprises shall enjoy import tax incentives for key components and raw materials that need to be imported in order to produce major technical equipment supported by the state for development. Steadily advance the reform of replacing business tax with value-added tax, gradually include the transfer of intangible assets such as technology patents, trademarks, and brands in the scope of value-added tax collection, and support the technological transformation of enterprises.

(4) Broaden financing channels. Strengthen the coordination and cooperation between credit policies and industrial policies, and guide financial institutions to increase financing support for enterprises' technological transformation. Vigorously promote the innovation of financial products and services, and develop financial product and service models that are suitable for the characteristics of enterprises' technological transformation capital

needs. Financial institutions are encouraged to improve their comprehensive service capabilities such as project screening, assessment, pricing, and risk control, provide diversified financing facilities for technological transformation projects, increase credit input for technological transformation projects through financial discounts, intellectual property pledges, and other means, and provide targeted support to national key technological transformation projects that conform to the direction of industrial upgrading. Support enterprises to carry out technological transformation by means of financial leasing, and actively guide and support enterprises to expand the scale of direct financing for technological transformation of enterprises through listing and financing, issuance of corporate bonds, corporate bonds and medium-term notes. Standardize the development of industrial investment funds and equity investment funds, and guide private funds to support the technological transformation of enterprises.

(5) Complete management mechanisms. Establish a scientific and efficient management mechanism for enterprise technological transformation work with clear responsibilities, optimize work processes, and improve the management level of technological transformation work. Establish and improve a unified national statistical system for investment in industrial technological transformation, and strengthen the monitoring, analysis and information release of enterprises' investment in technological transformation. Focus on the development needs of enterprises, strengthen vocational education, and cultivate high-quality skilled talents for enterprise technological transformation and industrial upgrading. Improve the management system for technological transformation projects, establish an assessment mechanism for investment effects, and strengthen the analysis and evaluation of investment benefits and the supervision and inspection of government investment projects.

All regions and departments should further unify their thinking, profoundly understand the importance and urgency of promoting the technological transformation of enterprises, further strengthen organizational leadership, and earnestly increase the intensity of work. The people's governments of all provinces (autonomous regions and municipalities) should include the promotion of technological transformation of enterprises in the important agenda of the government, speed up the introduction of specific measures and measures in light of actual conditions, and do a good job in implementation. The relevant departments of the State Council should strengthen coordination and cooperation, strengthen work guidance and supervision and inspection, and ensure that all policies and measures are implemented in a down-to-earth manner. It is necessary to further give play to the role of industry associations as a bridge, fully mobilize the enthusiasm and initiative of the majority of enterprises, form a joint force, and jointly create a new situation in the technological transformation of enterprises.

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