



The State Council's guiding opinions on promoting the technological transformation of enterprises

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People's governments of all provinces, autonomous regions and municipalities directly under the Central Government, ministries and commissions of the State Council, and agencies directly under the State Council:

Technological transformation is an investment activity in which enterprises use 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. 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. For a long time, all regions, departments and enterprises have actively implemented the decisions and arrangements of the Party Central Committee and the State Council, vigorously implemented the technological transformation of enterprises, and achieved remarkable results, greatly improved the technical level of the industry, greatly enhanced the comprehensive competitiveness of enterprises, and technological transformation has played an important role in promoting the sustainable and healthy development of our country industry. At present, the internal and external environment of our country's economic development is undergoing profound changes, the new era and 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 investment direction lacks effective guidance, and the management system needs to be further straightened out. The following guiding opinions are put forward on further accelerating the promotion of enterprise technological transformation:

1. Overall requirements

Guided by Deng Xiaoping Theory and the important thought of "three

represents”, we will thoroughly implement the scientific concept of development, accelerate the transformation of economic development mode as the main line, promote industrial transformation and upgrading, and enhance industrial competitiveness as the main direction.

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 innovation achievements, and enhance the core competitiveness of the industry; pay more attention to energy conservation, consumption reduction, emission reduction and 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 transformation of traditional industries and the development of emerging industries, and the combination of highlighting key points and comprehensive improvement. By 2015, the proportion of technological transformation investment 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 to promote the technological transformation of enterprises will be more sound, and the information application of key industries and backbone enterprises will reach the international advanced level.

2. Key tasks

(1) Promote technological innovation and industrialization of scientific and technological achievements. For key areas and weak links, break through a number of common key technologies, accelerate the industrial 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 number of technological innovation demonstration enterprises with good R&D foundation, multiple 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 a combination of industry, academia, research and application, 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) Improve the level of equipment. Accelerate the elimination of backward process technology and equipment, and promote the application of advanced manufacturing systems, intelligent manufacturing equipment and large-scale complete sets of technical equipment such as automation, digitalization, networking, and intelligence. Support key enterprises to aim at the world's cutting-edge technology, accelerate equipment upgrading and transformation, and promote technology and equipment in key areas 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 transformations 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 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, and the comprehensive utilization of low-grade and co-associated mineral resources, and actively develop circular economy and remanufacturing industries. Cultivate a number of resource-saving and environment-friendly demonstration enterprises.

(4) Optimize the product structure. Accelerate product upgrading and improve product technology 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 increase 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 all aspects of the product life cycle such as R&D and design, manufacturing, marketing management, recycling and reuse, 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 the integration of military and civilians. Improve core capabilities such as overall design, final assembly testing, and system integration, and promote the development of military-civilian 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 of the same origin or 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 field of national defense science and technology industry.

(7) Promote safe production. Implement the technical 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 treatment systems, and dangerous goods production, storage and transportation equipment and facilities, and improve the intrinsic safety level of industrial enterprises.

(8) Improve 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 coordinated

transformation of leading enterprises and supporting enterprises, support the technological transformation of the whole industrial chain in R&D and design, manufacturing, marketing services, etc., and promote the development of industrial layout in the direction of industrial support, professional cooperation, intensive and efficient factors, and ecological and environmental protection.

(9) Strengthen the construction 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 integrity information management platforms, and comprehensive information service platforms for key industries. Increase support for the implementation of technological transformation for small and medium-sized enterprises, and establish and improve a number of public service platforms and productivity promotion centers for small and medium-sized enterprises.

3. 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 on technological transformation. Research and formulate investment guidelines for technological transformation, and issue annual key project orientation plans. Improve the industrial technology standard system, carry out transformation actions such as industrial product safety, energy efficiency, environmental protection, hygiene and reliability standards in key industries and key areas, and improve the incentive and restraint mechanism for technological transformation.

(2) Increase financial support. Give full play to the guiding role of government investment in social investment, and 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 various forms of support, and improve the efficiency of the use of financial funds.

(3) Improve preferential tax policies. Make good use of the current relevant preferential tax policies to support the technological transformation of enterprises, including the VAT input tax incurred by general VAT taxpayers or self-made machinery and equipment, which can be deducted

from the output tax in accordance with regulations; The depreciation of fixed assets stipulated in the Enterprise Income Tax Law is accelerated, and the investment amount of special equipment for environmental protection, energy conservation and water conservation, and production safety can be deducted according to a certain proportion. Advanced equipment required for projects encouraged by the state and cannot be produced domestically shall be exempted from import tariffs within the prescribed scope. Domestic enterprises will enjoy import tax incentives for importing key components and raw materials necessary for the production of major technical equipment supported by the state. Steadily promote the reform of business tax to 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 technological transformation of enterprises. Vigorously promote the innovation of financial products and services, and develop financial products and service models suitable for the characteristics of enterprises' technological transformation capital needs. Encourage financial institutions to improve comprehensive service capabilities such as project screening, evaluation, pricing, and risk control, provide diversified financing facilities for technological transformation projects, increase credit investment in technological transformation projects through financial discounts, intellectual property pledges, etc., and support national key and technological transformation projects in line with the direction of industrial upgrading in a targeted manner. Support enterprises to carry out technological transformation through financial leasing and other means, and actively guide and support enterprises to expand the scale of direct financing for technological transformation through listing 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) Improve the management mechanism. 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 industrial technological transformation investment, and strengthen the monitoring, analysis and information release of enterprise technological transformation investment. 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 project management system for technological transformation, establish an investment effect assessment mechanism, 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, deeply understand the importance and urgency of promoting the technological transformation of enterprises, further strengthen organizational leadership, and effectively increase their work. The people's governments of all provinces (autonomous regions and municipalities) should put the promotion of technological transformation of enterprises into the important agenda of the government, accelerate the introduction of specific measures and measures in light of actual conditions, and do a good job in implementation. Relevant departments of the State Council should strengthen coordination and cooperation, strengthen work guidance, supervision and inspection, and ensure that various policies and measures are implemented. It is necessary to further play 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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