

5. Country Report of People's Republic of China¹

5.1 Current Status of the ICT Sector of People's Republic of China

The Policy System Has Been Accelerated and the Industrial Scale Has Been Rapidly Growing

Innovation and industrial development of smart technology are highly valued in China. China is making efforts to keep pace with the global speed with the rapid growth of the global smart technology industry, no matter in the field of ICT and other subdivision fields like AI for instance. China has also promulgated policy documents on promoting smart technological innovation and industrial development based on the action plans of Made in “China 2025” and “Internet plus” as the United States and Britain have successively launched strategic plans to promote industrial development. “13th Five-Year Plan for the Strategic Emerging Industries Development” released by State Department also mentions that we need to foster the industrial ecology of smart technologies to promote the popularization and application of smart technologies in key economic and social areas.

Driven by both technological breakthroughs and application requirements, the new technology has rapidly increased its industrialization level to various fields in the industry. As software and Internet technology continue to advance in all walks of life, the related industries such as cloud computing, large data and Internet of Things are continuously being improved, which will make the market scale of the smart technology industry continue to expand. As a result, specialized and intelligent services for various industries can create new market space and is expected to create a group of new industry leaders.

Breakthroughs Have Been Made in Key Technologies and the Main Structure Has Been Continuously Evolving

As the awareness of smart technology continues to increase, collection of a large number of social capital and intellectual and data resources will continue to drive the research on technology go to next stage. On the one hand, the related core technologies continue to move forward under the joint promotion of major science and technology companies such as Baidu and key universities such as Peking University and Tsinghua University; on the other hand, related supporting technologies are also being transformed from scientific experiments to industries in the period of application, the Internet of Things technology with the data collection as the main direction will be more mature. The breakthrough of these technologies will promote each other's development and promote the following evolution of smart technologies.

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As the innovation of technology is still in an active phase, the industrial development space is still large and the development direction is diversified. The main structure of industrial development will continue for some time in the future. The innovative subjects and the entrepreneurs who go deeper in this game, meet each other and build new cooperation model during this process, they become a new emerging force for the evolution. This evolution will continue to trigger opportunities and challenge the growth of traditional businesses.

With a large number of scientific research forces transferred from colleges and universities to key enterprises, the future of science and technology enterprises will be further strengthened in the intelligent technology innovation in the dominant position, the formation of enterprises and universities and other scientific research institutions, supplemented by the main body of intelligent innovation.

The core value of intelligent technology lies in the integration, including the integration with industry technologies and the integration of application scenarios. With the open source technology of smart technology, the leading players in major industries are expected to speed up the grasping of basic technologies and rely on the accumulated industry data resources to realize the integration and innovation of smart technologies and their own businesses. Meanwhile, it is expected to converge on a new integrated smart platform where new products and new formats will bring new force to our industrial development.

The Industry Application Has Been Continuously Deepened, and the Impact Has Been Greatly Enhanced

The significant spillover effect of smart technology will lead to continuous improvement in other related fields and will also promote the overall breakthrough in the transformation and upgrading of traditional industries and emerging industries. Diverse applications include education, finance, transportation, healthcare, sports, entertainment, public administration and other related fields.

Seeing from the industrial angle, the manifestation of the value of intelligent science and technology includes not only the economic growth brought by the development of its own industries, but also includes the supportive value of the development of other industries from the perspective of industrial development. It will change people's mode of production and way of life and profoundly affect the country's economic and social development. All these are the crucial links of the whole progress, they influence each other and support each other.

Still, seeing from comprehensive way, China's smart technology is still in its early stages, and its application scenarios are constantly being enriched. There are still bottlenecks in the technical level that need to be overcome.