

**"National
Informatization Plan for
the 14th Five-Year Plan**

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"During the 14th Five-Year Plan period, information technology has entered a new phase of accelerating digital development and building a digital China. General Secretary Xi Jinping stressed that there is no modernisation without informatisation. Information technology has brought a once-in-a-lifetime opportunity to the Chinese nation, and the historical opportunity of its development must be seized keenly. Accelerating digital development and building a digital China are intrinsic requirements for responding to the changing situation in the new development stage, seizing the opportunities of the information revolution, building new national competitive advantages and accelerating the building of a strong socialist modern country; they are strategic measures for implementing the new development concept and promoting high-quality development; and they are the way to promote the construction of a new development pattern and build a modern economic system. Facing the profound changes in the supply chain of the global industrial chain and the global governance system in the post-epidemic

era, adapting to the changes in the main contradictions in China's society, accelerating digital development and building a digital China is the best way to cultivate new development momentum, stimulate new development vitality, bridge the digital divide, accelerate the modernisation of the national governance system and governance capacity, promote The inevitable choice for the comprehensive development of people and the overall progress of society.

This plan is based on the Outline of the 14th Five-Year Plan and the 2035 Vision for National Economic and Social Development of the People's Republic of China, the Outline of the National Strategy for Informatization Development, etc. It is an important part of the national planning system of the 14th Five-Year Plan, and is a guide to the work of informatization in all regions and departments during the 14th Five-Year Plan. "It is an important part of the national planning system of the 14th Five-Year Plan and an action guide for the informatization work of all regions and departments during the 14th Five-Year Plan.

I. Current situation and situation

(i) Current status of development

"During the 13th Five-Year Plan period, the Party Central Committee, with Comrade Xi Jinping at its core, has attached great importance to **the** development of informatization, promoted theoretical, practical and institutional innovations in informatization, and made the strategic decision to build a strong network, a digital China and a smart society.

We have strengthened top-level design, coordination, overall promotion and supervision, and promoted the development of information technology to achieve historic achievements and changes. The main objectives and tasks of the 13th Five-Year National Informatization Plan were successfully completed, and decisive progress and significant results were achieved in the construction of Digital China.

Leading the world in the scale of information infrastructure. Built the world's largest fibre-optic and 4G networks, a global leader in 5G commercialisation and an internet penetration rate of over 70%. From 2015 to 2020, the household penetration rate of fixed broadband will increase from 52.6% to 96%, and the penetration rate of mobile broadband users will increase from 57.4% to 108%. The gap between the development levels of urban and rural information technology has been significantly narrowed, and the proportion of administrative villages and poor villages connected to optical fibre and 4G nationwide has exceeded 98%. The Beidou-3 global satellite navigation system was launched.

Important breakthroughs were made in the information technology industry. China's global innovation index ranking increased from

The number of patent applications in the fields of 5G, blockchain and artificial intelligence will be the largest in the world since 2019. Since 2019, China has become the world's largest source of patent applications, and the number of patent applications in the fields of 5G, blockchain and artificial intelligence is the highest in the world. The information technology industry has further expanded and strengthened, with the added value of the electronic information manufacturing industry maintaining an annual growth of over 9% and software business income maintaining an annual growth of over 13%. The ecology of the strategic technology industry was continuously optimised.

The digital economy has grown by leaps and bounds. China's total digital economy leaps to world

Second, the value added of core industries in the digital economy will reach 7.8% of GDP by 2020, with a more solid foundation for digital industrialisation and an increasingly prominent role

for data empowerment and intelligence. The digitalization of agriculture will be accelerated, and precision operations and digital management will be promoted on a large scale. The digital transformation of the manufacturing industry was accelerated, and the reduction of costs and improvement of quality and efficiency were obvious. The digitalization of the service industry is accelerating, and new business models are flourishing.

Business transactions reached RMB 37.21 trillion, becoming an important channel for consumer spending.

The level of information for the benefit and convenience of the people has been greatly enhanced. The breadth and depth of the application of "Internet + government services" expanded rapidly, the national government services platform was basically completed and opened for service, and the level of centralization of government websites nationwide was significantly improved. The world's first Internet court was set up and a national "Internet + supervision" system was initially completed. Digital technology played an important role in the prevention and control of the new pneumonia epidemic. A total of 360 million electronic social security cards were issued nationwide, and the telemedicine collaborative network covered all of the country's More than 24,000 medical institutions in prefectures and cities and all county hospitals in poor counties at the national level, and 100% of primary and secondary schools (including teaching points) nationwide have Internet access.

International cooperation in the digital sphere

has yielded tangible results. Digital Economy
Partnership Network

The China National Cyberspace Administration (CNCA) has continued to expand its network, issued the "Action Initiative on Building a Community of Destiny in Cyberspace Together", proposed the "Global Data Security Initiative", launched the "G20 Initiative on Digital Economy Development and Cooperation", "Belt and Road" Initiative on International Cooperation in Digital Economy, signed the "Digital Silk Road" cooperation memorandum of understanding with 16 countries, and established the "Silk Road E-Commerce" bilateral cooperation mechanism with 22 countries. The "Silk Road" cooperation memorandum of understanding was signed with 16 countries, and bilateral cooperation mechanisms for "Silk Road e-commerce" were established with 22 countries. The globalization of cyber enterprises, the further promotion of network interoperability, and the significant increase in the competitiveness of information and communication technologies, products and services in the international market. The concept of a community of

destiny in cyberspace was widely disseminated.

Optimization and enhancement of the informatization development environment. Legal policy framework for the development of informatisation based

This formation, the pace of reform and opening up of the digital market accelerated, and digital regulatory services were optimised and enhanced. The Cyber Security Law, the E-Commerce Law and the Cyber Security Censorship Measures were promulgated and implemented, positive progress was made in the standardization of information technology and cyber security, the construction of disciplines and the training of talents, and the ability to guarantee cyber security was significantly enhanced. Cyberspace has become increasingly clear, cyber culture has flourished, and the level of cyber civilization has steadily increased.

(ii) Development situation

During the "14th Five-Year Plan" period, the external environment and internal conditions for the development of information technology in China have undergone complex and profound changes. The world today is undergoing major changes unprecedented in a century, with the unprecedented speed of the rise of emerging market countries and developing countries, the unprecedented fierce competition brought about by the new round of technological revolution and industrial change, the unprecedented changes in the global governance system and international situation, and the unstable and uncertain evolution of the world landscape brought about by the impact of the new pneumonia epidemic.

Internationally,the world has entered a period of turbulent change, with unilateralism, protectionism, and Hegemony poses a threat to world peace and development, and the security and stability of China's information technology industry chain, supply chain and innovation chain are severely challenged. The digital transformation of the world

economy is accelerating, a new generation of information technology is accelerating the iterative upgrading and integration of applications, and the digital economy is leading the all-round transformation of production factors, organizational forms and business models. International competition in the digital space has entered a new stage, and national innovation and competitiveness, with the core of information technology ecological advantage, digital transformation potential and data governance capability, are becoming the focus of a new round of competition among countries around the world, and the competition for the rule system and core technology ecosystem in the digital field is becoming increasingly fierce.

Domestically China has shifted to a stage of high-quality development, with significant institutional advantages.

With improved governance effectiveness, a long-term economic upturn, a strong material base, abundant human resources, vast market space, strong development resilience and a stable social situation, we have many advantages and conditions for continued

development. Accelerating digital development, adhering to the two-wheel drive of technological innovation and institutional innovation, and leading the construction of a modern industrial system with a digital economy are conducive to promoting quality change, efficiency change and power change in economic development. Accelerating digital development, promoting the modernisation of the national governance system and governance capacity, and creating a common

The construction of a shared social governance pattern is conducive to meeting the new expectations of the people for a better life. Accelerating digital development and upgrading the advanced level of industrial foundation and modernization of industrial chain will help make up for the shortcomings of industrial foundation capacity and stimulate the vitality of market players. Adhering to win-win cooperation and promoting the opening-up of information technology to a wider scope, wider fields and deeper levels will help support the construction of a new development pattern with a large domestic cycle as the mainstay and dual domestic and international cycles promoting each other.

China's solution" for international cooperation in the digital field has yet to be perfected; the governance system for digital development needs to be improved.

"The 14th Five-Year Plan period is an important opportunity period for information technology innovation to lead high-quality development. It is a period of deepening and consolidating the modernization of the national governance system and capacity, accelerating the construction of a digital

society, greatly enhancing the modernization of the national governance capacity based on data, and modernizing the social

The advantages of the socialist system are transformed into strong national governance effectiveness; it is an important breakthrough period for building a strong network, digital China and enhancing international discourse, and we should actively advocate building a community of destiny in cyberspace, actively participate in building an international rule system in cyberspace and promote the development of the Internet for the benefit of the world's people. Standing at a new historical starting point, we should deeply understand the new features and requirements brought about by the changes in the major contradictions in our society, the new contradictions and challenges brought about by the intricate international environment, and the new opportunities and space brought about by the continuous deepening of the information revolution, enhance our awareness of opportunities and risks, maintain strategic determination and bottom-line thinking, more vigorously and effectively promote the core technologies, industrial ecology, digital economy, the We will strive to achieve higher quality, more

efficient, more equitable, more sustainable and safer development.

II. Overall deployment

(i) Guiding principles

In-depth implementation of the spirit of the 19th CPC National Congress and the 2nd, 3rd, 4th, 5th and 6th Plenary Sessions of the 19th CPC Central Committee, adhering to the guidance of Xi Jinping's thought on socialism with Chinese characteristics in the new era, especially General Secretary Xi Jinping's important thought on a strong network nation, closely focusing on the overall layout of the "Five-in-One" and the coordination of the "It will also adhere to the general keynote of seeking progress in a stable manner, take the promotion of high-quality development as the theme, build a digital China as the overall goal, accelerate digital development as the overall grasp, give full play to the driving and leading role of information technology in economic and social development, and promote the simultaneous development of new industrialization, information technology, urbanization and agricultural modernization. The main line of action is to deepen

the structural reform on the supply side, further liberate and develop digital productivity, and accelerate the construction of a modern economic system.

The new development pattern is based on a major domestic cycle and a dual domestic and international cycle that promote each other; with reform and innovation as the fundamental driving force, improve the innovation system and development environment, stimulate innovation vitality and enhance development momentum; with the fundamental aim of meeting the people's growing needs for a better life, coordinate development and security, promote the modernization of the national governance system and governance capacity, and strengthen the construction of a digital society, digital government and digital people's livelihood In addition, we will make the people feel a greater sense of happiness and security in the development of information technology, and provide a strong impetus for starting a new journey of building a modern socialist country and marching towards the second century goal.

(ii) Basic Principles

Adhere to the overall leadership of the Party.
Adhere to and improve the Party's institutional mechanism for leading the development of informatization, strengthen the top-level design,

coordination, overall promotion and supervision of the construction of digital China, and provide a fundamental guarantee for achieving high-quality development of informatization.

Adhere to the people as the centre. Take the promotion of people's well-being and all-round human development as the starting and ending points for the development of information technology, and build a digital society and digital Government, to create a high quality digital life and to continuously realise the people's aspiration for a better life.

Adhere to the new development concept.
Integrating the new development concept throughout the construction of digital China
In addition, we will use information technology to cultivate new dynamic energy, use new dynamic energy to promote new development, promote the construction of a new development pattern, and promote quality change, efficiency change and power change.

Insist on deepening reform and opening up. Give full play to the decisive role of the market in allocating resources
It will also be used to better play the role of the

government, break down institutional barriers that restrict the release of digital productivity, improve the basic system of data governance, and create a new situation of international cooperation in the digital field.

Adhere to the system to promote. Follow the law of information development and coordinate both domestic and international

The government will also work to strengthen the foundation, promote the advantages, fill in the shortcomings and strengthen the weaknesses, and enhance the systemic, holistic and coordinated construction of digital China.

Adhere to the equal importance of security and development. Establish a scientific view of network security and effectively guard

We will also promote the development of network security and information technology in a coordinated and parallel manner, and enhance the level of information technology development and network security.

(iii) Development Objectives

By 2025, the construction of Digital China will have made decisive progress, the level of development of information technology will have risen significantly, the digital infrastructure will have been comprehensively consolidated, the capacity for innovation in digital technology will have been

significantly enhanced, the value of data elements will have been brought into full play, the digital economy will have developed with high quality, and the effectiveness of digital governance will have been improved overall.

A more complete digital infrastructure system.

5G networks are widely used and clearly The sixth generation mobile communication (6G) technology vision is in demand. The commercial applications of Beidou system and satellite communication networks are expanding; IPv6 is being integrated and innovated with 5G, industrial internet and vehicle networking; the level of intelligence of infrastructure such as power grids, railways, highways, water transport, civil aviation, water conservancy and logistics is being improved. The data centre has formed an integrated pattern with reasonable layout and green intensification. The digital infrastructure capacity represented by 5G, Internet of Things, cloud computing, industrial Internet, etc. reaches international advanced level.

Digital technology innovation system basically

formed. Key core technology innovation capability is evident

The shortage of integrated circuits, basic software, equipment materials, core components, etc. has been greatly enhanced.

Significant breakthroughs were made in the board. The technological innovation capacity of Internet information enterprises has been significantly improved, the eco-system of collaborative innovation between industry, academia, research and use has basically taken shape, the market mechanism of free and flexible innovation has been effectively established, the national common basic technology platform has been initially built, and the ecological construction of open source community has made important progress. A basic system of laws, regulations and standards for information technology has been formed, and the mechanism for the cultivation and introduction of talents and incentives has been improved.

The quality and effectiveness of digital economy development reached a world leading level. Digital Industry

The development of digitalisation and industrial digitisation will flourish, digital technology and the real economy will be deeply integrated, and a number of digital industry clusters with international competitiveness will be formed.

The level of advanced industrial foundation and modernisation of industrial chains has been significantly improved, and the stability, security and competitiveness of industrial supply chains have been significantly enhanced. The new business models of the digital economy will develop healthily, the digital business environment will be continuously optimised, and the market for digital products and services will become stronger.

The construction of a digital society is

progressing steadily. Party building leads, service orientation, resource integration

A digital social governance pattern that is integrated, supported by information and guaranteed by the rule of law has basically taken shape. The social security and public safety system is becoming more and more perfect, the ability of early identification of risks and forecasting and early warning is significantly improved, and the emergency response capability of public emergencies is significantly enhanced. The level of grassroots governance was significantly improved by information technology. The new smart city is being promoted in an orderly manner in

terms of grading and classification, the construction of digital villages is being steadily carried out, and the level of coordinated development of urban and rural informatization has been significantly enhanced.

The level of digital government construction has been raised across the board. Appropriate to the Party's governance in the new era

The information technology construction and management system of the Party and government organs was basically formed. Nationwide government service matters are basically unified in terms of standards, overall linkage and business synergy, and the online and offline integration of government service models is fully promoted, with the capacity of integrated government services significantly enhanced nationwide. An authoritative and efficient mechanism for sharing and coordinating government affairs data was continuously strengthened.

All, public data resources open standards and incentive mechanisms have been improved, and the level of data resources utilisation has been significantly enhanced. The effectiveness of post-event supervision has been enhanced and fair supervision has been improved.

The digital livelihood protection capacity has been significantly enhanced. Barrier-free information technology facilities continued to be built

The level of equalisation of digital public services in the fields of education, healthcare, employment, social security, civil affairs and culture has been significantly improved, the supply capacity of diversified and convenient digital livelihood services has been significantly enhanced, the gap in service levels between urban and rural areas has been significantly narrowed, and the digital literacy and skills of the whole population have been steadily improved. The gap in the level of services between urban and rural areas is significantly reduced, and the digital literacy and skills of all people are steadily improved.

The digital development environment is becoming increasingly sophisticated. Regulated and orderly governance for digital development The capacity has been significantly improved, the digital ecology has been optimized, the innovative vitality of new technologies, new products, new business models and new modes has been fully stimulated, and the capacity of cyberspace governance and security has been significantly enhanced.

**"Main indicators of information
development in the 14th Five-Year
Plan**

S er ia l n u m b er	Categ ory	Indi cat ors	2020	2025	Prope rties
	Overall develop ment Level	Digital China Development Index	85	95	Antici patory
1	Digital facilitie s	Size of Internet users (billion)	9.89	12	Antici patory
2		5G subscriber penetration (%)	15	56	Antici patory
3		1000M and above for fibre access users (10,000 households)	640	6000	Antici patory
4		Number of active IPv6 users (billion)	4.62	8	Antici patory
5		New generation IT industry inventions per 10,000 population Profit ownership (pieces)	2.7	5.2	Antici patory

6	Innovation capacity	Investment in IT projects as a percentage of total social fixed asset investment Proportion of total (%)	3.5*	5.8	Anticipatory
7		Computer, communications and other electronic equipment manufacturing R&D investment intensity (%)	2.35	3.2	Anticipatory
8		Number of high-tech enterprises nationwide (10,000)	27.5	45	Anticipatory
9	Industrial transformation	Value added of core industries in the digital economy as a percentage of GDP Weight (%)	7.8	10	Anticipatory
10		Proportion of companies with fully digitalised key business processes (%)	48.3	60	Anticipatory
11		Enterprise industrial equipment on the cloud rate (%)	13.1	30	Anticipatory
12		Online retail sales (trillions of yuan)	11.76	17	Anticipatory
13		Scale of information consumption (trillions of yuan)	5.8	7.5	Anticipatory
14	Government Services	Online processing rate of provincial administrative licensing matters (%)	80	90	Anticipatory
15		Size of real-name users of online government services (billion)	4	8	Anticipatory
16		Electronic social security card application rate (%)	25	67	Anticipatory
17		Percentage of e-litigation (%)	18	30	Anticipatory

Note: Data with * are for 2019.

III. Main focus

"The development of information technology in the 14th Five-Year Plan period should be based on a new development stage, implement a new development concept, build a new development pattern, promote

high-quality development, highlight priorities, focus resources, and focus on making breakthroughs in deepening the innovation drive, optimizing the allocation of factors and resources, supporting common construction and sharing, promoting healthy and harmonious coexistence, and preventing and resolving risks, etc. We will also promote higher quality, more efficient, more equitable, more sustainable and safer development.

Deepen the innovation drive and lead higher quality development. Deepen basic research, build an information technology industry ecosystem, strengthen the main body of enterprise innovation, promote efficient cooperation among universities, institutes and enterprises, establish open, collaborative and networked platforms online and offline, form an integrated development model based on innovation chain sharing, supply chain synergy, data chain linkage and industry chain collaboration, promote advanced industrial foundation and industry chain modernization, and enhance the industry chain supply chain Modernization level. We will insist on combining internal and external openness, give full

play to the important role of the digital economy in different aspects of production, distribution, circulation and consumption, smooth the internal circulation of the national economy, and form a higher level of dynamic equilibrium in which demand pulls supply and supply creates demand. Great

We will strive to promote the deep integration of digital technology with the real economy, continuously optimise the digital business environment and promote the vitality of market players.

Optimise the allocation of factor resources and promote more efficient development. Continuing to deepen the reform of "management and administration" and promoting a better combination of an effective market and a responsive government. We will establish and improve the rules and regulations for the use of the Internet, big data, artificial intelligence and other technical means for administrative management, break down sectoral and industrial data barriers, and improve the efficiency of the allocation of factor resources, the supply of public products and the operation of government organisations. Steadily promote the factorisation of data, speed up the circulation of data elements, prosper the data application ecology, enhance the effectiveness of data in serving the real economy, and build a digital economy with data as the key element. We will promote the cross-border flow of data in an

orderly manner, accelerate the development of digital trade, and create a new global digital trade development ecology that is more open, transparent and inclusive.

Support the building and sharing of a common society and promote more equitable development. Accelerate the bridging of the digital divide, make up for the shortcomings of information infrastructure in rural areas and enhance the digital skills of the information disadvantaged. Coordinate the development of urban and rural areas, and deepen the integrated development of regional information technology. Completing the weaknesses in livelihood protection and social services, improving a multi-level social security system that covers all people, is integrated with urban and rural areas, is fair and unified, and is sustainable; strengthening the construction of emergency management, public health and disease control systems; and promoting systematic, digital, intensive and accurate development. Give full consideration to the needs of the elderly and special groups, advocate humanised design of digital products, and enhance the inclusiveness of the digital economy.

Strengthen and innovate the application of information technology in grassroots social governance, and truly allow the people to become the widest participants, biggest beneficiaries and ultimate judges of social governance.

Promote healthy and harmonious co-existence for more sustainable development. Deepen the construction of a green and intelligent ecological civilisation and promote digitalisation and green synergy. Continuing to promote

Intelligent and green manufacturing, green and efficient energy, greening of information carriers, developing smart logistics, advocating low-carbon travel, promoting the formation of economical and moderate, green and low-carbon, civilized and healthy production, lifestyle and consumption patterns, and the formation of a good culture of joint participation by the whole society. Strengthen the digital governance of the ecological environment, enhance the enforcement and supervision of the Yangtze River fishing ban and the protection of aquatic biodiversity, and improve the regional linkage mechanism for pollution prevention and control and the ecological and environmental governance system that integrates land and sea. With people's health as the goal, we will spawn new digital health technologies, shape new digital health industries, cultivate new digital health ecologies, create new digital health values, and reshape the management and service models of medicine and health, so as to continuously enhance the health and well-being of the people.

Prevent and resolve risks, and ensure more secure

development. Comprehensively strengthen the network security protection system and capacity building, deepen the security concept of moving the gate forward and preventing problems before they occur, compact the responsibility of network security, strengthen the construction of network security information co-ordination mechanism, and form a multi-party network security defence line. Develop network security technology and related products to enhance the independent defence capability of network security. Improve relevant laws and regulations and technical standards, regulate the collection, management and use of various data resources, and avoid leakage of important and sensitive information. Strengthen the dynamic assessment of security risks of new technology applications, and gradually explore the establishment of governance principles and standards for new technologies such as artificial intelligence and blockchain to ensure that new technologies always develop in a socially beneficial direction.

IV. Major tasks and key projects

(i) Building a Ubiquitous and Smart Digital

Infrastructure System

To promote high-quality development and enhance people's well-being, it is necessary to speed up the construction of digital infrastructure, appropriately over-deploy the next-generation intelligent facility system, deepen the digitalization and intelligent transformation and upgrading of public facilities, and promote infrastructure capacity enhancement on all fronts.

Rising.

Build ubiquitous and intelligent network

connectivity facilities. Accelerating the scale of 5G commercial networks

Construction and application innovation, and implementation of the "sail" action plan for 5G applications. Organize the construction of "Gigabit City" networks and demonstration pilots for cities with conditions, and continuously promote the upgrade of urban broadband networks to high-speed and intelligent. It will coordinate the transformation of

Column 15G Innovative Application Projects	
IPv6 in national backbone networks, metropolitan	1. Accelerate the construction of 5G networks. Scientifically co-ordinate 5G network layout and site planning, strengthen the common construction and sharing of support capacity of terminals, and realize the smooth evolution and upgrade of networks, applications and resources, promote deep coverage in major cities and key regions, gradually extend coverage to key counties and towns, and form a network pattern with multi-layer networks co-existing in hotspots and one network supporting remote areas. Build a security protection system adapted to 5G of key technologies such as the convergence of development and vertical applications, and strengthen the terrestrial wireless and satellite communications and security management of the 5G supply chain.
IPv6 for commercial applications, enhance the IPv6	2. Foster the ecology of 5G technology applications. Accelerate the innovative development and pioneering application of 5G+industrial Internet, and promote the development and application of 5G in vertical industries such as energy, transportation, healthcare, and postal

Technology development trials to drive the maturation of the millimetre wave industry.

Build a new sensory infrastructure for the connection of things and numbers. Accelerate public safety, traffic

The digitalization and intelligent upgrading of public infrastructure in areas such as communications, urban management, people's livelihood, ecological and environmental protection, agriculture, water conservancy and energy. Promote the integration of industry IoT into public infrastructure construction planning, and accelerate the development of cross-

Column 2 Construction of "smart network" facilities and application promotion projects

1. Carry out innovative demonstrations of Telematics of a new urban IOT network that integrates IOT, applications. Select and build a national-level Telematics digital IOT, and smart IOT, accelerate the pioneer zone, accelerate the construction of road collaborative deployment of 5G and IOT, and enhance the construction of a 5G-V2X Telematics demonstration of the resource sharing and comprehensive utilization of network, enhance the "human, vehicle, road, cloud and sensing" facilities. Carry out early demonstration of "network" collaboration capability of in-vehicle intelligent interconnection and interoperability of new devices, roadside communication devices, road generation information infrastructure in the Yangtze River Delta advanced autonomous driving above L3 level. The application.

2. Demonstrate the application and innovation of intelligent port systems. 39 Build port information infrastructure based on 5G, Beidou, Internet of Things and other technologies, and take coastal container hub ports as

Real-time monitoring of regional energy information, online analysis and prediction, and comprehensive optimization and dispatching platform to promote "multi

Meter-integration". Promote two-way interaction between electric vehicles and smart grids to form an intelligent and efficient charging infrastructure system with vehicles and piles following each other.

Build a new arithmetic facility for cloud-network integration. Accelerate the construction of a

national integrated large

Collaborative innovation system for data centres, construction of national hub nodes of integrated arithmetic networks in Beijing, Tianjin and Hebei, Yangtze River Delta, Guangdong, Hong Kong, Macao and the Greater Bay Area, and Chengdu and Chongqing. Coordinate the deployment of cloud data centres for public services and important areas such as healthcare, education, broadcasting, scientific research, etc., and strengthen regional optimization of layout, intensive construction and energy conservation and efficiency. Promote the integrated

Column 3. National Integrated Big Data Centre System Construction Project

realise the organic integration of cloud computing resources and network facilities. Coordinate the construction and development of cloud networks, and Establish direct data centre connectivity networks between

regional data centre clusters and between clusters and

major cities to promote the hierarchical and categorical layout and construction of data centres, and accelerate the

development of intensification, scale and greening.

construction of arithmetic and algorithm centres for blockchain and artificial intelligence, etc., build edge computing nodes with peripheral environment sensing and feedback response capabilities, and provide low latency, high reliability and strong security edge computing services. Strengthen the overall layout of the national supercomputing facility system, and explore the market-oriented cultivation mechanism for the opening of mainframe services to the public. Carry out the "China Science and Technology Cloud" application innovation demonstration, and enhance the research and innovation service support capability.

4. Build a security system that integrates and cooperates with basic networks, data centres, clouds, data and applications. Carry out communication network security protection, research and improve risk identification and

protection technology for convergence and integration of massive data, data desensitization technology, data security compliance assessment and certification, and

Data encryption protection mechanisms and related technical detection means.

Explore the construction of cutting-edge information infrastructure. Accelerate the layout of satellite communication networks and other Implement major projects for the industrialisation of Beidou for a new type of network with global coverage, and build application demonstrations and open laboratories. Accelerate the integration and innovation of commercial applications of the Beidou system, satellite communication networks, ground-based low-altitude sensing and other air and space network infrastructures. Build a blockchain infrastructure based on distributed identification,

Column 4 Demonstration Project of Air, Sky and Sea Network Construction and Application

and enhance the interoperability between blockchain systems. Promote the construction of smart ocean projects, and focus on improving the capacity of Accelerate the construction of air and space information integrated ocean information sensing, communication networks based on the Beidou system, satellite

communication networks and remote sensing satellites, accelerate the deployment of Beidou intelligent terminals, and strengthen the remote sensing monitoring and emergency

transmission, resource processing and smart application services. Explore the establishment of future-oriented quantum information facilities and test environments. Continuously promote the structure optimization and scale pilot of the national new Internet exchange centre and the national Internet backbone direct connection point.

Full-time, full-area sensing and monitoring of elements such as environment, ecology, natural disasters, engineering construction and urban development to form industrial applications.

4. Carry out demonstration of intelligent transportation applications. Develop new types of network communication services for airborne, shipborne and in-vehicle use, and

cultivate intelligent transportation applications in airborne, ocean-going and alpine desert environments. Promote the construction of a nationwide unified train operation timing and dispatching command system based on the Beidou system, and strengthen train operation monitoring and management. Promote international road transport based on the Beidou system Management and service system construction.

(ii) Establishing a system of data element resources for efficient utilization

Adhere to the strategic base point of expanding domestic demand, give full play to the key role of data as a new factor of production, focus on the development and utilization of data resources, sharing and circulation, whole life cycle governance and security, establish and improve the data factor resource system, stimulate the value of data factors, enhance the empowering role of data factors, lead and create new demand with innovation-driven, high-

quality supply, form a strong domestic market and promote the construction of a new development The new development pattern.

Strengthen data governance. Strengthen national data governance synergies and improve data resources Governance system system. Deepen the survey of data resources, promote the construction of a data standards and specifications system, develop standards and specifications for data collection, storage, processing, circulation, trading and derivative products, and improve the quality and standardization of data. Establish and improve the

Column 5. Data element market cultivation project	
data governance capacity assessment system.	1. Strengthen theoretical research on data elements.
	Research to refine the nature of property rights
Standardize the use of measurement data and carry out pilot national measurement data construction and application. Focus on data management, sharing and opening up, data application, authorisation and licensing, security and privacy protection, risk control and other aspects, and explore a multi-body collaborative governance mechanism.	

Standardize the use of measurement data and carry out pilot national measurement data construction and application. Focus on data management, sharing and opening up, data application, authorisation and licensing, security and privacy protection, risk control and other aspects, and explore a multi-body collaborative governance mechanism.

Construct a data property rights framework oriented to promote industrial development. Explore the data value assessment system and study and improve the data value assessment framework.

2.Establish a sound system for the effective flow of data. Accelerate the establishment of basic systems and standards and norms for property rights, transaction circulation, cross-border transmission and security protection of data resources. Explore the establishment of a unified and

standardized data management system and develop mechanisms for data registration, evaluation, pricing, transaction tracking and security review.

3.Cultivate a standardized data trading platform and market players. Establish a sound data property rights exchange

The mechanism for trade and industry self-regulation.

Develop market operation systems for data asset valuation, registration and settlement, transaction aggregation and dispute arbitration.

Enhance the level of data resources

development and utilization. Establish and

improve national public data resources

Source system, build a unified national public data open platform and development and utilization port, and promote the safe and orderly opening of public data resources such as population,

transportation and communication. Encourage enterprises to open up data on search, e-commerce, social networking, etc., and develop third-party big data service industries. Improve the interoperability of heterogeneous data, cultivate and develop a number of data application products for different scenarios, and continuously improve data development and utilisation capabilities. Accelerate the application of the whole process of data in various industries and fields. Support the construction of scenarios for standardised data development and utilisation in agriculture, industry, commerce, education, healthcare, security, natural resources, water conservancy, urban management, public resource transactions, trial execution and other fields, and enhance the value of data resources. Improving the tax collection and management system that adapts to the characteristics of data elements and promotes the orderly development of the digital economy, and encouraging the development of specialized big data service enterprises. Optimise statistical production methods and promote the deep integration of government statistics with big data.

Competitions, authorizations for openness, etc., to promote innovation in industry data applications. Organise pilot demonstrations of big data industry development, select a number of outstanding big data pilot demonstration projects, and summarise and promote mature and replicable experience and practices. Carry out online and offline data application training activities.

2.Enhance the support capacity of the big data industry. Develop capability level standards for big data precision services, innovation services and collaborative services, and carry out capability assessment for enterprises on the supply side of big data technologies, products and services. Encourage the construction of an open source community for big data applications with leading

domestic enterprises as the main body and the joint participation of enterprises, developers and volunteers, and carry out the development of standards for the promotion and use of domestic open source products and testing and evaluation. Support third-party professional institutions to implement special skills training for big data jobs, carry out job competency certification for big data talents, and accelerate the training of knowledge-based, skill-based and innovative job talents.

3.Establish a monitoring and analysis system for the quality of big data industry development. Construct a monitoring index reporting system, study and compile guidelines for measuring the output value of big data, and carry out regular analysis of the operation of the big data industry. Cultivate a number of industry big data solution providers, develop big data analysis, consulting and

Strengthen data security. Strengthen data collection, aggregation, storage, circulation, and Safety management of the entire life cycle of applications and other applications, and the establishment and improvement of relevant technical safeguards. Establish a data classification and grading management system and a personal information protection certification system, strengthen data security risk assessment, monitoring and early warning, testing and certification and emergency handling, strengthen the protection of important data, enterprise commercial secrets and personal information, and regulate the use of personal information of minors. Strengthen the responsibility of platform enterprises for data security protection. Strengthen the safe management and supervision of data transactions, enhance law enforcement capacity building, and crack down on theft or other illegal acquisition, illegal sale or illegal provision of data to others. Establish a sound data exit security management system and conduct pilot data exit security assessments.

(iii) Building an innovative development system that unleashes digital productivity

We will adhere to the core position of innovation in the development of national informatization, take the self-sufficiency and self-improvement of key core technologies as the strategic support of digital China, face the frontiers of world science and technology, the main battlefields of the economy, the major needs of the country and the life and health of the people, thoroughly implement the innovation-driven development strategy, and build an innovation development system driven by both technological innovation and institutional innovation to fully release digital productivity.

Strengthen basic research on information technology. Give full play to the National Natural Science Foundation of China and other The elements drive the effect, vigorously promote theoretical research in basic disciplines, optimize the layout of frontier interdisciplinary disciplines, and promote the coordinated development of basic and applied disciplines in information science. Support interdisciplinary and interprofessional research and

strengthen the supply of common basic technologies. Build a national platform for high-end exchange of scientific research papers and scientific and technological information. Promote the organic convergence of national science and technology plan deployment and strengthen the whole chain of collaborative innovation from basic research, technology research to application demonstration. Support the participation of government, industry, academia, research and application bodies in the construction of major science and technology infrastructures, and encourage all types of innovation bodies to use major science and technology infrastructures to conduct research on scientific issues.

Strengthen key information technology

innovation. Improve the creation of key core technologies in the field of information

New top-level design, the implementation of the “unveiling of the list” and other systems, deepening the innovation chain and the industrial chain, capital chain, talent chain, policy chain and mutual integration support, to improve the overall

Column 7 Core technology breakthrough project in the field of information
1. Accelerate the research and development of key integrated circuit technologies. Promote the creation

effectiveness of the innovation chain. Coordinate the industrial layout of communication technology, advanced computing, security technology and other fields. Strengthen market and industrialisation guidance, and enhance key breakthroughs and focus on core technology shortcomings in key areas.

New, accelerate the development of key materials such as IC design tools, key equipment and high-purity targets, and promote breakthroughs in special processes such as insulated gate bipolar transistors (IGBTs) and microelectromechanical systems (MEMS).

2. Improve the level of research and development of key software. To strengthen the development of key software in

key areas and major needs such as key basic software, high-end industrial software, cloud computing, big data, information security, artificial intelligence and networking of vehicles. Accelerate the protection of software intellectual property and information services System building.

Deploying strategic cutting-edge technologies.

Targeting technologies that could trigger a paradigm in the field of information technology The important direction of change, forward-looking layout of strategic, frontier, original and disruptive technologies. Strengthen the strategic research layout and technological integration and innovation in key frontier areas such as artificial intelligence, quantum information, integrated circuits, space information, brain-like computing, neural chips, DNA storage, brain-computer interface, digital twin, new non-volatile storage, silicon-based

optoelectronics, non-silicon based semiconductors, etc.

Build an open and flexible institutional system and innovation environment. Improve the collaborative creation of science and technology A new system to guide the establishment of a collaborative innovation system that is enterprise-oriented, market-oriented and deeply integrated between industry, academia, research and use. Establish a sound mechanism for the distribution of income from the transformation of intellectual property rights and obligations. Promote pilot projects for industry-industry cooperation and explore financial policies for the balanced development of direct investment and indirect financing. Deeply promote the implementation of the first unit of major technical equipment (Set) policies, explore market-based insurance mechanisms for the promotion and application of technological innovation. Focus on critical information infrastructure security, network security, data security and other areas, and accelerate the improvement of laws, regulations and standard

specification system construction. Increase research on legislation for new technologies and fields such as artificial intelligence and blockchain. Strengthen the research and construction of theoretical systems for informatization, digitization and intelligence. Improve the digital economy statistical monitoring system, strengthen the early warning of digital economy security risks, and support the enhancement of macroeconomic governance capabilities.

Column 8 Information Technology Intellectual Property and Standardization Innovation Project

1.Strengthen patent innovation in information technology. Strengthen the creation and reserve of intellectual property rights for key core technologies in the information field, implement scientific patent layout, and guide the formation of patent portfolios for key core technologies in technology research and original innovation. Strengthen the cultivation of high-value patents in areas such as 5G, artificial intelligence, quantum information, block chain, Internet of Things, industrial Internet, big data centres and intelligent computing centres. Strengthen the synergistic development of technology, patents and standards, and promote the incubation of standard patents in the field of frontier technologies of information technology in parallel with the development of international standards. Strengthen the patent risk response for new applications in convergence fields and open source technology products. Strengthen the industrial application of patents, and improve the coordination and linkage mechanism of patents between industry, academia, research and application, and across industries. Promote pilot demonstration of patent navigation and guide local governments, enterprises and institutions, industry organizations and other types of entities to improve the patent navigation work system.

2.Enhance the level of IP information services. Relying on the national integrated big data centre system, the level of national IPR information disclosure services was enhanced, and the intelligence level of IPR data analysis and

application and research and decision-making was improved. Strengthen the capacity of public services such as rights protection and assistance, reporting and complaint, enquiry and retrieval, and build an IPR protection system of joint supervision, protection and punishment through technical means such as source tracing, real-time monitoring and online identification. Increase the opening up of basic information on intellectual property rights to support the innovative development of enterprises and the transformation and upgrading of industries. Strengthen IPR protection in areas such as 5G, Internet of Things, industrial internet, artificial intelligence and quantum technology.

3. Build an information technology standard innovation system. Improve the layout of the information technology standard system, support information technology-related standardization technical committees, scientific research institutes and advantageous groups, in-depth cooperation with enterprises, forming a closed-loop innovation mechanism of "technology research and development - standard development - industrial application". Promote standardization in key areas such as 5G, big data, artificial intelligence, blockchain, industrial internet, etc., and accelerate the improvement of the existing standard system for data sharing and data application. Promote the formation of an information technology innovation application standard ecosystem with standards as the core, combined with application capability assessment, product quality

measurement and system construction and acceptance.
Promote the standardization of new types of consumption
and

Support and encourage platform enterprises, industry
organizations, research institutions and other research and
development to support new consumer

Service standards for fees.

4. Strengthen the application and promotion of information technology standards. We will give full play to the role of enterprises in the implementation of standards, enhance international cooperation in the formulation of informatization standards, information exchange and personnel training, and launch joint

initiatives on technical specifications with the "One Belt, One Road" countries in key areas such as industrial cooperation, technology exchange and trade and investment. Encourage relevant institutions and enterprises in China to actively join international open source organisations for major core technologies and participate in international standards cooperation.

Build.

(iv) Fostering an advanced and secure digital industry system

We will take digital industrialization as an important driving force to promote high-quality economic development, accelerate the cultivation of the information technology industrial ecology, promote the transformation and application of digital technology achievements, promote the leap in the capacity of digital industries, support the development and growth of cyberindustrial enterprises, and build internationally competitive digital

industry clusters.

Create a high-level industrial ecology. Promote research and innovation, industrial development and market

Coordinated development in all aspects of application, standard setting, certification and accreditation, inspection and testing, talent training and capital operation. Accelerate the research and development of core technology products that meet domestic economic and social needs, build an adaptation and certification platform and accelerate the adaptation of software and hardware. Promote the integration of government, telecommunications, finance, medical, energy,

Column 9 Information Technology Industry Ecological Construction and Manufacturing Industries into the Cultivation Project

domestic core technology ecology, and encourage and guide more industries to participate in the core technology ecology. Accelerate the construction of domestic open source communities, create an operational mechanism for participants to obtain development benefits on an equal footing, and guide domestic open source innovation forces to export their innovations to international open

source communities in an orderly manner. Strengthen the accumulation of scientific research data and industrial data resources. Actively build ecological innovation bases, improve the mechanism for transforming scientific research results, and cultivate organisations for transforming commercial scientific research results.

1.Cultivate an advanced dedicated chip ecology.

Strengthen research on the basic theoretical framework of chips, and accelerate the iteration of cloud-side, side-side and end-side chips for super computing, cloud computing, Internet of Things, intelligent robots and other scenarios. Promote the adaptation and tuning of domestic chips and algorithm framework platforms and operating systems, and improve the adaptation of basic algorithm modules and software toolkits for major scenarios such as audio and video analysis, heterogeneous computing and scientific computing. Support the establishment of a dedicated chip developer community and collaborate with the industry to establish evaluation metrics and evaluation standards for dedicated chips.

2.Collaborate to optimise the computer software and hardware ecology. Improve the computational density and process level of central processors and promote the integration and iteration of central processors and operating systems. Build compatible and controllable software and hardware interface standards, and strengthen international cooperation and mutual recognition of standards. Establish a standard certification and evaluation system to achieve a single test and common use in multiple markets.

3.Build and improve the open source mobile ecology. Build a multi-body consultation and iteration mechanism for whole machines, chips, application vendors and innovation platforms. Improve tool chains such as compilers, development and testing tools and basic software modules, and guide

enterprises to develop software versions based on generic versions that are suitable for industry scenarios. Promote the iteration of hardware, software and service interface standards, and improve the organisation of mobile OS version evolution and ecological integration.

4.Cultivate an ecology of talent cultivation in universities. Build a strong model microelectronics college and a characteristic model software college. Encourage leading enterprises to participate deeply in the cultivation of talents in universities.

Promote the digital industry to leapfrog in capacity. Foster and grow artificial intelligence, big data, and Emerging digital industries such as blockchain, cloud computing and cyber security, and upgrading industries such as communication equipment, core electronic components and key software. Aiming at the advanced industrial base, it will accelerate the transformation of key core information technology achievements such as basic materials, key chips, high-end components and new display devices, and promote the industry to the middle and high end of the global value chain. Carry out actions to enhance the value of software, continue to build famous

software cities, parks, enterprises and products, and guide the software industry to accelerate the development of clusters. Accelerate innovative applications based on network information technology, and foster the development of new products, processes and services.

Promote the development and growth of cyber enterprises. Make use of the registration system such as the Growth Enterprise Market (GEM) and the Science and Technology Venture Board (STB) Reform and open up diversified financing channels. Guide more cyberinformation enterprises to focus on niche areas, increase investment in science and technology and enhance their innovation capabilities. To bring into play the supply chain-driven capability of the industrial chain of cyberspace enterprises, and to promote upstream and downstream, synergistic linkage between production, supply and marketing, and the integration and development of small, medium and large enterprises with information flow.

(v) Building a system for the development of digital transformation of industry

We insist on putting the focus of economic development on the real economy, promoting the deep integration of the Internet, big data and artificial intelligence into various industries, vigorously promoting the digital and green synergistic transformation of industries, developing modern supply

chains, improving total factor productivity, promoting energy conservation and emission reduction, and vigorously enhancing the quality efficiency and core competitiveness of the economy.

Promote the optimization and upgrading of traditional industries. Accelerate the integration of new generation information technology and real economy

In addition, the government has also been implementing the "Cloud and Data Empowerment" initiative to create a smart supply chain system supported by big data, networked sharing and intelligent collaboration. We will also build smart agriculture, speed up the digitalization and intelligent upgrading of agricultural production, processing, sales, logistics and other aspects of the industry chain, build a basic agricultural data resource system, and accelerate the construction of agricultural science and technology services information technology to provide strong support for ensuring food security. Accelerate the digital transformation of the manufacturing industry, develop a multi-level systematic industrial Internet platform

system and innovative applications, build a national industrial data centre system, strengthen the construction of a standard system for the integration of the two, and implement in-depth intelligent manufacturing projects. It will also develop new modes of digital management, intelligent production, networked collaboration and personalised customisation, and foster new business models such as industrial e-commerce and industrial chain finance. Deepen the digital transformation of the service industry and cultivate new growth points such as crowdsourcing design, smart logistics and new retail. Accelerate the digital transformation of state-owned enterprises, and increase inclusive digital transformation services for private and foreign-funded enterprises.

We are committed to supporting the development of new business and fostering the development of new integration subjects.

Column 10	Digital Transformation Project for Manufacturing Industry
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1. Deepen the innovation and development of the industrial Internet. Increase the transformation of the internal and external networks of the industrial Internet and establish a sound identification resolution system. Create comprehensive cross-industry and cross-field industrial Internet platforms, specialised in key industries and regions, and specialised in specific technical fields. Implement the "leader" plan for industrial equipment in the cloud, and cultivate new models of industrial software based on platforms. Continuously deepen the construction of industrial Internet demonstration zones, industrial Internet platform application innovation promotion centres and training bases, and organise and carry out industrial Internet platform empowerment promotion activities. Support leading industry enterprises to integrate manufacturing resources and capabilities through industrial Internet platforms, and jointly establish a new industrial division of labour system with shared resources, business synergy and mutual benefits. Establish a network security classification and grading management system for industrial Internet enterprises, develop an industrial Internet security technology industrial system, and improve the monitoring and early warning notification and disposal mechanism.

2. In-depth promotion of the development of the integration of information technology and industrialization. Research and formulate a series of guidelines to promote the integration and application of 5G,

big data, industrial internet, block chain and other new generation information technology with the manufacturing industry, and accelerate the development of national standards, industry standards, group standards and international standards in the areas of integration of two, such as the degree of integration of two, digital management of the supply chain, digital management of the whole life cycle of products and equipment on the cloud. Create an upgraded version of the standardization of the integration of two management systems, develop a standardization tool for the automation of the integration of two, and guide localities to carry out graded standardization assessment. Study and formulate guidelines for the evaluation and construction of the degree of integration, and carry out monitoring and evaluation of the development level of integration. Build an assessment system for industrial data management capability. Encourage governments at all levels to strengthen policy guidance and financial support in the implementation of standardization, personnel training and effect evaluation.

3. Deepen the development of smart manufacturing. Research and development of applicable technologies such as artificial intelligence, 5G and blockchain for application in industry. Promote the development and iterative upgrading of key equipment for intelligent manufacturing, and encourage the development of complete sets of intelligent manufacturing equipment for specific industries. Promote the deployment of

industrial knowledge software and business management software platforms, develop embedded operating systems and software, create specialised system solutions, cultivate intelligent manufacturing system solution providers, and support

Create a pool of solution resources. Building intelligent industries such as automotive, rail transportation, steel and other segments

Manufacturing standard system. Build intelligent manufacturing demonstration factories, cultivate intelligent manufacturing benchmark enterprises, support intelligent upgrading demonstration projects of industrial chains and foster the development of intelligent manufacturing public service platforms.

4. Accelerate the integration and development of major technical equipment and a new generation of information technology. Strengthen the integrated application of new

sensors, intelligent measurement instruments, industrial control systems, network communication modules and other intelligent core devices in major technical equipment products, and use new generation information technology to enhance the data collection and analysis capabilities of products. Actively explore artificial intelligence technology in major technical equipment such as electric power, advanced rail transportation, aerospace, high-end machine tools, medical care, agriculture and other major technical equipment areas

Domain applications.

Implement a digital strategy for the cultural

industry. Promote the cultural industry and the new generation of information

The development of a new generation of immersive cultural products and services based on 5G, ultra-high definition, augmented reality, virtual reality,

artificial intelligence and other technologies. Promote research and development of digital creativity, high-tech video technology and equipment, and accelerate the development of new cultural enterprises, cultural industries and cultural consumption models. Enrich the digital content of online music, online animation, online performance, digital art, online performance, online fitness, online events and live sports, and enhance the digital level of cultural and sports product development and service design. Vigorously develop digital cultural trade, actively use online platforms to showcase Chinese culture, and innovatively promote cultural exchange and mutual appreciation between Chinese and foreign cultures.

Promote the development of new business models. Vigorously develop digital commerce and cultivate digital New business models driven by technology and data resources. Encourage intelligent upgrading and business model innovation in the areas of travel, catering, accommodation, culture, tourism, sports, logistics and housekeeping, promote branded and

quality consumption, and foster a high-quality digital lifestyle services market. Cultivate new forms of intelligent elderly care and childcare. Support the healthy and orderly development of social e-commerce, live e-commerce and knowledge sharing, and actively develop telecommuting,

Emerging business models and scenario applications such as cloud exhibitions, contactless services and shared staff. Take advantage of region-specific policy innovations to steadily promote the development of digital currencies.

Column 11 Information Consumption Expansion and Quality Improvement Project
<p>1. Accelerate the organic integration of online and offline consumption. Promote the integration of online and offline services such as culture, tourism, sports, home management and property, promote the standardisation and branding of service industries, and promote the upgrading of lifestyle services to high quality and diversity. Relying on the construction of smart communities, promote the consumption of community services. Innovate contactless consumption models and explore new retail models such as smart supermarkets. Encourage the integration of digital creative industries with manufacturing, culture and education, tourism and sports, health care and elderly care, smart agriculture and other fields.</p> <p>2. Promote the healthy development of the sharing economy and platform economy. Encourage enterprises to open up platform resources, promote the sharing of public cloud resources and create new dynamics of shared production. Explore new modes of sharing production materials and encourage various economic entities to promote the sharing of production materials in</p>

accordance with market-based allocation. Improve the policy system to adapt to the flexible employment of sharing platforms and support enterprises to carry out "shared employment". Further reduce the cost of entrepreneurship and employment for self-employed people operating online, and guide the Internet

Platform companies reduce the cost of services related to self-employment.

Promote collaborative regional development.

Implement major national regional strategies and regional coordinated development strategies, explore new models, technologies and rules first, create a digital transformation empowerment system for cities, and drive the development of the surrounding digital economy. Focus on the advantages of regional resource endowments, optimize the layout of regional digital economy productivity, create an integrated ecosystem of regional industry chain supply chain, and accelerate the formation of a spatial pattern of digital economy development that combines points, lines and surfaces, and echoes the East and West.

Expand regional interaction and cooperation, and promote the development of China

Deepen the application of digital technology in the western and northeastern regions, and accelerate the development of e-commerce, tourism, education and inclusive financial services.

Promoting digital green synergy. In advancing the digital transformation process

To achieve green development, vigorously develop green smart terminals, green information networks and green data centres, and tap into the potential for energy saving and emission reduction in all segments. Empowering "production, life and ecology" with digitalisation, accelerating digitalisation to drive smart green growth in industries such as agriculture, manufacturing and services. Leading green with digitisation and driving digitisation with green. Vigorously develop new technologies and industrial systems that integrate digital and green, create new momentum for high-quality development, promote profound changes in production and lifestyle, and help achieve the goal of carbon peaking and carbon neutrality.

(vi) Constructing a digital social governance system that is jointly built, governed and shared

Modern information technology is used to introduce new paradigms, create new tools and build new models for "China's governance", improve the system of social governance for joint construction, governance and sharing, enhance the effectiveness of data-based national governance, and modernise social

governance, especially at the grassroots level.

Build a three-dimensional and intelligent social security prevention and control system. Deepen the public security vision

Frequency image construction networking, accelerating the in-depth integration of image recognition, Internet of Things, big data, artificial intelligence and other information technology in the circle of

Column 12	Intelligent Public Security Construction Enhancement Project
<p>investigation and control unit, prevention and control, element control and other areas of security and control applications, strengthening the national out the construction of big data for social public gate and border area prevention and control, and security, coordinate a new generation of public security enhancing the integrity, synergy and accuracy of information infrastructure, upgrade and improve common social security prevention and control application support platforms, deepen data sharing and business collaboration, and improve the public security data centre.</p> <p>2.Build an integrated command and communication system. Promote command communication autonomy, high-definition and Encryption upgrades, enhanced satellite technology integration applications, enhanced police wireless local area network (PWL)</p>	

Promote the application of digital trunking communication (PDT), deepen the construction of digital trunking communication (PDT) network, and complete the "one network" of national public security command communication.

3.Improve the precision crime fighting system. Promote regional information sharing and police collaboration, strengthen intelligent applications for prediction, early warning and combating crime, improve the ability to curb new types of crime such as telecommunication network fraud, and enhance the level of national information technology for anti-terrorism and anti-drug.

4.Upgrade the three-dimensional security and control system. Strengthen the construction of an intelligent social security sensing network, upgrade the intelligent application of public security video images, improve the technical defence system in border areas and build a network active overall security framework.

5.Improving the system of convenient and beneficial services for the public. Improving the national database of basic population information, upgrading the level of public security government services, accelerating the effective connection of administrative and public service information systems, and

Realisation of "one network for all" public security services.

Create an integrated and intelligent public safety system. Building a city-aware decision-

making centre

Pivot to enhance the ability to prevent and control risks in key areas such as public health, disease prevention and control, food and drug safety, production safety, urban safety, natural disasters and express logistics. Strengthen the operational situational awareness and intelligent analysis of urban pipeline networks, public spaces, road traffic, rail transportation, fire protection, water

<p>Column 13 Experimental Project on Artificial Intelligence for Social Governance</p> <p>conservancy facilities, large ports of entry and major events, etc., enhance public safety risk</p> <p>1. Carry out experiments on the social governance of identification and forecasting and early warning medical artificial intelligence. Explore the effects of capabilities, and support the forward movement of the artificial intelligence in the application of intelligent urban public safety prevention and control system, robot application, intelligent public health services, artificial fine management and comprehensive decision-making. intelligence assisted drug development, intelligent Build a scientific research platform for social management of medical equipment and other directions, and study governance big data and simulation and deduction, and the effects of artificial intelligence on medical carry out experiments on social governance under the impact of artificial intelligence on privacy and ethics in disease prevention and control. artificial intelligence conditions.</p>
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The impact of artificial intelligence, collaborative disease prevention and control systems under artificial intelligence conditions and related regulations and policies.

2. Conduct social experiments in urban management.

Research to explore the impact of artificial intelligence on urban administrative efficiency, urban operation and management, urban road traffic, and improving resident satisfaction.

3. Carry out social experiments on elderly care.

Explore the correlation between AI applications and the well-being of the elderly and the level of elderly care services, study the impact of AI applications on the future elderly care model and service content and elderly care work, and explore the study of standards and policies related to AI in the elderly care sector.

4. Conduct social experiments on environmental governance. Explore the operation mode of environmental governance systems under artificial intelligence conditions and the collaborative mode of environmental governance regulation, and study the impact of environmental governance on personal privacy protection and data security under artificial intelligence conditions.

5. Conducting social experiments in education. Study the impact of AI on educational models and educational objects, and explore the impact of AI integration in education on society.

6. Conduct social experiments on risk prevention. Explore the combination of research on artificial

intelligence and satellite remote sensing, video surveillance, Internet of Things, emergency broadcasting, etc. for early identification of risks, accurate forecasting and early warning, and reduction of loss of people's lives and property in areas such as production safety, urban and rural safety, and natural disasters.

7. Building a scientific research platform for social governance big data and simulation. The platform will provide data aggregation, simulation, perception, and interactive analysis support for national and social governance.

Create an emergency information system that integrates civilian warfare. Promoting emergency management with information technology

To modernize the management of the international logistics supply chain, comprehensively enhance the monitoring and early warning capability, supervision and law enforcement capability, auxiliary command and decision-making capability, rescue and combat capability and social mobilization capability in coordination with multiple departments, and enhance the capability of international logistics supply chain services. Improve the multi-sectoral coordination of disaster and accident information reporting, early warning release, information sharing

and emergency handling mechanism, and strengthen

It will also strengthen the technical and platform support for emergency management equipment, enhance the ability of emergency management to comprehensively sense, quickly deal with, accurately supervise and secure materials, effectively improve disaster prevention, mitigation, resistance and relief, and curb the occurrence of serious accidents. Support the construction of a unified national reserve system with information technology,

Column 14	Emergency Management Modernization Capacity Enhancement Project
	<p>strengthen the integration and sharing of data resources for food and strategic emergency supplies, 1.Enhancing risk monitoring and early warning and enhance the capacity of national reserves to capabilities. To build a comprehensive monitoring and early respond to emergencies. Promote information warning system for natural disasters and production safety technology to better support the construction of production safety, urban and rural areas, build a "Tianmu net" disease prevention and control systems and major emergency satellite constellation system, and improve the epidemic prevention, control and treatment systems, comprehensive monitoring, early identification of risks and strengthen data sharing and collaborative forecasting and early warning capabilities of multi-hazard applications among government, enterprises, and species and disaster chains. The company will also build a medical support system for flood and drought control, improve the ability to respond to public health emergencies. control models, and improve the modernization of flood and drought control and emergency management. Improving the catalogue of emergency management data resources and exploring the establishment of a system of indicators for the safe operation of urban and rural areas.</p> <p>86</p> <p>2.Improve emergency response and disposal capabilities. Build an integrated air, sky, ground and sea emergency</p>

Innovate grassroots social governance. Deepen the application of big data, artificial intelligence and other information technologies in grassroots regime building, urban and rural community governance and services, and enhance grassroots

Party building service management level, improve the combination of self-governance, rule of law and moral governance of urban and rural grassroots system led by Party organizations. Accelerate the building of smart communities, fully integrate the grassroots entrances to the systems of civil affairs, health, housing and construction, emergency response, comprehensive governance, law enforcement and other departments, and build a grassroots governance platform with grid-based management, refined services, information support and open sharing. Social organisations, social workers and volunteers will be able to participate in grassroots social governance and services online, and social resources will be able to participate in public welfare and charity online, so as to promote healthy interaction between government governance, social regulation and residents' autonomy.

Promote the high-quality development of new smart cities. Promoting smart cities according to local conditions

To promote the integrated development of the Guangdong-Hong Kong-Macao Greater Bay Area, and to

promote the coordinated development of regional information technology around key areas such as public transport, express logistics, medical consultation and schooling, urban operation and management, ecological and environmental protection, license management, market supervision, public safety and emergency management, etc. Promote information sharing in the Guangdong-Hong Kong-Macao Greater Bay Area. Steadily promote the construction of an urban data resource system and data brain, build an interconnected, open and empowering wisdom hub, improve the urban information model platform and operation management service platform, and explore the construction of a digital twin city. Implementing the construction and renovation of intelligent municipal infrastructure, effectively enhancing the ability to perceive and make intelligent decisions on the operation of the city and the state of the economy. Implement "one map" digital management and "one network management" model for the city. Enrich digital life experiences and accelerate the development of digital households. Promote integrated planning and synchronised implementation of new smart

cities and digital villages, and explore a new model of smart governance with urban-rural linkages, resource sharing and fine efficiency.

(vii) Building a collaborative and efficient digital government service system

Deepening the reform of "management and administration", accelerating the transformation of government functions, creating a market-oriented, rule-of-law and international business environment, and insisting on building a digital government in an integrated manner.

Promote the synergy of government affairs, accelerate the opening, sharing and development of government data, deepen the promotion of "one network for all", "cross-province access" and "one network for all", and open up channels for participation in policy formulation. It will also promote a more complete national administrative system, a better role for the government, a significant increase in administrative efficiency and credibility, and a better combination of an effective market and a responsive government to create a service-oriented government.

To enhance the level of information technology construction of party and government organs.

Promoting information on the party's governing capacity

The project will improve the core business systems of all departments of the Party Central Committee and enhance the ability to serve the Party Central Committee's decision making and command support. Optimize the network structure and security system of e-government, intensively build government cloud platforms and data centre systems, promote cloud

migration of government information systems, and comprehensively promote mobile office applications. Continuously enrich government information resources, improve data sharing and exchange systems, and strengthen business collaboration and the safe and orderly sharing of information resources in government systems. Promote the intensive reform of government websites, and promote the integrated development of public, interactive and services. Promote the informatization and intelligent construction of the National People's Congress and the Chinese People's Political Consultative Conference, and expand the comprehensive service functions of representatives and members in performing their duties online. Deepen the construction of supervision informatization, and promote the digitization, standardization and intelligence of discipline inspection and supervision work. Comprehensively deepen the construction of intelligent courts and promote the improvement of the Internet trial model. Deepen the construction of intelligent prosecution services, and improve the support and sharing platform for prosecution

services.

Promote the sharing and circulation of government data. Accelerate the formation of an authoritative and efficient government at all levels. A coordination mechanism for sharing data on government affairs to provide support for national data sharing on government affairs. Establish and improve an effective mechanism for matching data supply and demand, and introduce more data sharing responsibility lists to include more data that is directly related to enterprises and the masses and has a high frequency of application in the scope of sharing. Promote the flow of data back to grassroots service departments and form a circular system for the upward and downward circulation of data. Give full play to the role of big data in reducing the number of forms and reports filled in by the grassroots.

It is used to achieve data collection and multiple uses at once and to reduce the burden on the grassroots.

Promote "one network for all" to make things more convenient for the public. Optimize the service level of the national integrated government service platform, improve the common support system such as unified identity authentication and electronic certificates, strongly support the standardization, standardization and facilitation of government services, and realize the nationwide "one authentication, all-net-access". The government service matters will be managed dynamically, and on the basis of promoting the "four levels and four identities" of government service matters, the acceptance conditions, legal time limits, quantity limits, annual audits and reports, and services will be further standardized.

The Government is also working to expand the scope of application of e-licensing and the scope of "no submission". Expanding the application area of electronic certificates and the scope of "no submission of certificates", promoting national interoperability and mutual recognition, and realising

Column 15	National Integrated Government Services Enhancement Project
<p>1.Promote "one network to do it all"and"do it all at once"</p> <p>" We will build one network "doing everything"</p>	

that the majority of government service matters can be done without running. Enhance the functions of the integrated online service platform for the whole process, actively carry out the "one thing done efficiently" and realise more high-frequency government service matters for "cross-province access". Promote the integration of online and offline government services, and build diverse and seamless online and offline integrated government service channels.

Improve unified identity authentication, electronic certificates, electronic seals, data sharing support capabilities, and promote high-frequency government service matters to achieve "cross-province handling".

4. Enhance the capacity of integrated, cross-level and cross-departmental co-working. Promote the formation of an integrated common office system based on the government

services extranet, expand mobile common office application scenarios and improve government administrative efficiency. Improve the security system of the national integrated platform, build the operation management system of the national integrated platform, and coordinate and promote the disaster recovery and backup system of the government service platform.

Uniform construction to secure government data.

Create a market-oriented, rule of law and international business environment. Upgrading electronic document management

In addition, the Government will continue to promote the orderly and effective application of electronic certificates, electronic contracts, electronic invoices and electronic accounting documents in important areas such as government services, finance and taxation, social management and livelihood services. We will promote the online

processing of all business-related government affairs, vigorously promote the electronic trading of public resources, and build a nationwide, transparent, standardized, interconnected and intelligently supervised public resources trading system. Accelerate the establishment of a "one network" for receiving and grading business environment appeals, and strengthen proactive services related to enterprises. We will actively explore new applications of big data, artificial intelligence and other services, strengthen the promotion and interpretation of enterprise-related policies and their precise delivery, and promote their effective implementation.

Promote the standardization, precision and intelligence of government supervision. Actively promote the "Internet +
The government should improve the integrated online supervision system, improve the cross-region, cross-sector and cross-level linkage response and collaborative supervision mechanism, and realize "enter once and check many things". Relying on the national "Internet + supervision" system system, the national credit

information sharing platform, the national enterprise credit information public system, build data synchronization, unified measures, consistent standards of credit supervision and coordination mechanism, improve the national supervision in the post-event big data analysis and risk warning system construction, smooth public social participation The channels and windows of "Internet + regulation". Promote the establishment and improvement of various regions and departments to

Credit-based new regulatory mechanism to expand the coverage of post-event supervision. Strengthen intelligent supervision in key areas such as food and drugs, special equipment, industrial product safety, consumer rights protection, internet transactions, advertising and prices.

(viii) Building an inclusive and convenient digital livelihood protection system

We insist on taking the realization, maintenance and development of the fundamental interests of the broadest number of people as the starting and ending points of development, and focus on improving the quality of people's lives by improving the basic public service system with information technology, so that the people can share the fruits of information development.

Carry out lifelong digital education. Upgrading education information technology infrastructure construction water level and build a high-quality education support system. Improve the national public service system for digital education resources and expand the coverage of high-quality resources. Promote the

transformation of education and teaching through the integration of information technology, intelligent technology and education and teaching. Take advantage of online education and virtual imitation training, deepen the application of big data analysis in education, and continuously expand and optimise education and lifelong learning services at all levels. Explore the expansion of pilot credit banks and the accumulation, certification and transformation of results, and build a public service system for lifelong learning experiences.

Provide inclusive digital healthcare. Coordinate the development of national health care big data resources

Construction of a source catalogue system and improvement of the grading and assessment system for smart hospitals and the regulatory system for Internet medical services. Strengthen the application of artificial intelligence, big data and other information technology in the development of intelligent medical equipment and drugs. Deepen and expand the scope of medical information technology applications, popularise the application of electronic

health codes for residents, and speed up the online processing of the entire medical process such as off-site referrals, medical consultations, hospitalisation and medical insurance. Accelerate the promotion and application of electronic vouchers for medical insurance, and build a nationally unified medical insurance information platform. Actively explore the use of information technology to optimise the flow of medical services and create a comfortable new experience in seeking medical treatment. Innovate and develop the Internet

Net hospitals, telemedicine, online health consultation, health management and other services, and continued to improve the popularity of telemedicine facilities and equipment in remote rural areas. Improve the digitalisation and intelligence of primary health care institutions and maternal and child health care institutions in disease prevention and treatment, and chronic disease management. Promote the in-depth integration of Chinese medicine health services with the Internet.

Optimise digital social security, employment and HR services. Upgrading basic social services The Government has also improved its ability to provide digital services and social security, optimised online services, continued to promote electronic social security card services and improved the nationwide unified public social insurance service platform. It is also building a dynamic monitoring system for the low-income population, innovating the "Internet + assistance" model, integrating social assistance information resources, and improving the accuracy of social assistance. Support and regulate the development of new forms of employment, deepen the

construction of national dual-innovation demonstration bases, and strengthen efforts to match supply and demand for industrial talent with precise services. Continuously improve and expand online employment and human resources services, and improve employment demand surveys and unemployment monitoring and early warning mechanisms. Accelerate the standardisation and unification of human resource management services such as talent personnel and the sharing and synergy of information. Build a network service system for ex-servicemen and create an internet service platform for ex-servicemen.

Enrich digital cultural and sports services.

Promoting the digitisation of public culture, the Accelerate the digitisation of cultural resources such as cultural centres, museums and cultural education bases, and provide convenient and resource-sharing national public cultural digital resource services. Promote the implementation of a full media communication project, build and use county-level integrated media centres, promote the construction of smart radio and television, and enhance cultural services. Deepen the development of smart tourism,

promote the development of online digital experience products in scenic spots and museums, cultivate new industries such as cloud tourism, cloud live streaming and cloud performing arts, encourage the development of new modes of consumption such as customization, experience, intelligence and interaction, and create new scenes of immersive tourism experiences. Establishing sports e

Map, improve the national fitness information service platform and promote digital upgrading of sports venues and facilities.

Column 16 Digital Public Services Optimization and Upgrading Project

1.Carry out the integrated construction of the "Internet + education" cloud network. Accelerate the construction of China's dedicated education network and the "Internet+Education" platform, build a ubiquitous online learning space, support the regular application of various innovative teaching and learning, promote the open sharing of high-quality educational resources, narrow the gap between regions, urban and rural areas and schools, and achieve a more equitable and better quality education.

2.Build a major basic platform for healthcare. Accelerate the construction of a medical exclusive cloud, promote data sharing and mutual recognition and business collaboration among information systems of medical and health institutions at all levels, and build an authoritative, unified, interoperable and shared information platform for health for all people at all levels. Continuously strengthen the construction of health information platforms for Chinese medicine halls and comprehensively enhance the informational capacity of grassroots Chinese medicine.

3.Establishing a "one card" for residents' services. Using (ix) Expanding a mutually beneficial and win-win international cooperation system in the digital field promote the online and offline application of the "one card" for residents' services in areas 105h as government services, social security and urban services, provide services such as employment subsidies, social security benefits, migrant

Adhere to the principles of peace, development, cooperation and win-win situation, actively participate in the reform of the global cyberspace governance system, promote trade and investment liberalization and facilitation, and promote

The "Digital Silk Road" is a high-quality development, insisting on the implementation of a wider scope, wider fields and deeper opening up to the outside world.

Strengthen research and development of international rules in the digital field. Actively participate in the World Trade Group. We have been working with multilateral mechanisms such as the G20, APEC and BRICS to accelerate our ability to participate in international rule-making in the digital sector. Accelerate the research and development of international rules and standards related to e-commerce, data security, digital currency, digital taxation, etc., and promote the shift from commodity and factor flow-based opening to rules and other institutional opening.

Build a multi-layered global digital partnership. Strengthen data, customs, and Cooperation on laws and regulations on taxation, audit and supervision, and digital technology, and promotion of trade and investment liberalization and facilitation. Strengthen cooperation with the "One Belt, One Road" countries on digital economy

Column 17	The "Digital Silk Road" Sharing Project
development,	build high-quality, sustainable, 1.Promote network infrastructure interconnection. Planning and building intercontinental submarine fibre-optic cable projects, accelerating the construction and

reasonably priced, inclusive and accessible digital infrastructure, build joint laboratories and technology matching and cooperation platforms, and build the "Digital Silk Road" with high quality.

Promote the introduction of high quality. Promote continued digital economy, internet and other areas Expanding openness. Fully implement the management system of pre-entry national treatment plus negative list for foreign investment, orderly expand the opening up of value-added telecommunications services, and pilot new models, technologies and rules in the digital sector that meet the needs of high-quality development in Hainan Free Trade Port and Pilot Free Trade Zone. Support foreign investment to participate in the construction of digital infrastructure in accordance with the law and regulations, and encourage foreign investment in smart manufacturing and other fields to transform and upgrade traditional industries. Support foreign-invested enterprises to establish regional headquarters and innovation and research and development centres in China to enhance their global resource allocation capabilities. Play the role of a carrier for the introduction of talents in enterprises, and support high-level overseas talents in the field of information technology to innovate and start

businesses in China.

Promote a high level of going global. Promote innovation in digital economy models such as mobile payments and for global users. Make full use of digital technology and new media means to promote cultural exchanges between China and overseas. Encourage online information enterprises to expand third-party market cooperation and actively participate in international competition in digital technology and digital products. Improve the legal, policy and service systems for promoting and safeguarding overseas investment, improve the management and services for national outbound investment cooperation, enhance the level of security protection work and foreign affairs information services for Chinese citizens and institutions abroad, and strengthen the ability to protect overseas interests and prevent risks in early warning. Innovate financial services and enhance the level of international information technology services of commercial financial institutions.

Make bigger and stronger innovation and

cooperation platforms. Organize the World Internet Conference etc. with high quality International conferences, promote international exchanges and cooperation on the digital economy, and do a good job of promoting and explaining our ideas and propositions and spreading them internationally. Accelerate the construction of internationalized open source communities and open source platforms, join with relevant countries and organizations to improve the construction of open source development platform interfaces, and standardize open source product laws, markets and licensing. Encourage and guide qualified netcom enterprises to participate in the construction of overseas cooperation parks, create high-quality investment and cooperation platforms, and build

World-class innovation centres for artificial intelligence, blockchain and more.

(x) Establishing a sound and standardized governance system for digital development

Insist on promoting development and regulating and standardising with both hands, regulate in development and develop in regulation, establish an all-round, multi-level and three-dimensional regulatory system, and extend regulation and governance throughout the whole process of innovation, production, operation and investment. Clarify the relationship between the government and the market, promote a better combination of an effective market and a responsive government, stimulate the vitality of various market players, and promote the sustainable, healthy and orderly development of digital China.

Strengthen the platform governance system.

Improve the body of laws and regulations governing Internet platforms system and clarify the responsibilities that internet platforms should bear for their published content, etc. Compress the responsibility for compliance of platform subjects, enhance the

transparency of platform governance rules, and strengthen the supervision of unfair competition and unfair pricing practices on platforms. Improve the mechanism for reporting and handling disclosure of illegal content, guide platform enterprises to take the initiative to disclose the self-examination and disposal of illegal content in a timely manner, and promptly warn of and investigate major risks and potential problems. Continuously strengthen and improve anti-monopoly and anti-unfair competition regulation, prevent disorderly expansion of capital, maintain fair and orderly competition in the platform economy, and protect the legitimate rights and interests of all parties, including operators and consumers within the platform. Encourage platform enterprises to devote more resources to innovative technology applications, improve product quality services, optimise platform operation rules and platform business environment, and promote the healthy development of the industry.

Build a governance system for technology rules.

Establishing and improving the review of digital technology applications

Mechanisms and regulatory legal systems, carry out technical computing laws and regulations, standards development, safety assessment and review, ethical proof, etc., and clarify the legal subjects and related responsibilities for key applications such as artificial intelligence and blockchain. Establish and improve anti-monopoly regulatory rules for the digital economy, and strengthen the digital forensic capabilities of law enforcement agencies. Bring into play the National Committee on Ethics in Science and Technology

The Committee will play a coordinating and guiding role, accelerate the construction of an ethical governance system for science and technology, strengthen the reserve of research on ethics of technology, and regulate all types of scientific research activities. Strengthen interdisciplinary analysis and research, and study and formulate guidelines and guidelines on digital technology ethics. Strengthen industry self-regulation and guidance, increase public education and publicity on digital technology safety risks, and raise awareness of technology risk prevention and responsibility among all sectors of society.

Explore flexible governance for market players.

Build a full stream of market players as the core
The programme is a flexible regulatory mechanism that implements a full chain and full field of regulation with credit verification and credit commitment beforehand, credit assessment and grading and classification inspection during the process, and rewards and penalties and credit repair afterwards. Explore innovative regulatory mechanisms such as trigger-based, and promote quality innovative

products and services for early and pilot implementation. Develop a grading and classification regulatory system based on data and credit, and implement the legal public disclosure of enterprise credit information, social supervision and disciplinary action for breach of trust. Improve cross-sectoral collaborative regulatory mechanisms, realise online and offline coordination and complementarity, and link and interact with market and industry regulation.

Improve the cyberspace governance system.

Strengthen the coordination of cyber legislation.

Improve cyber

Real name legal system, promote the construction of digital identity management system for the public, and increase the standardized integration and convergence of digital identity management system.

Explore the mechanism for linking the public's online behaviour with the social credit system, and strengthen online and offline collaborative governance. Improve the comprehensive network law enforcement coordination mechanism, strengthen the supervision and inspection of the protection

of minors on the Internet, and crack down on Internet crimes. Encourage social entities to participate in the co-management of online content in accordance with the law, smooth the closed-loop process of social supervision, acceptance, handling, feedback and incentive, and activate the enthusiasm of social co-management. Vigorously promote core socialist values, expand diversified online propaganda platforms and channels, and strengthen the propagation of positive information to create a clean and upright cyberspace. Building on the Global Data Security Initiative (GDSI), the

Deeply participate in the formulation of international rules and technical standards in cyberspace, promote the establishment of a fair, reasonable and transparent governance system and rule system, and join hands to build a community of destiny in cyberspace.

Comprehensively strengthen the network security protection system and capacity building.

Strengthen cybersecurity

Joint research on core technologies, research on advanced threat protection, situational awareness, monitoring and early warning and other key technologies, and the establishment of a secure and controllable network security software and hardware protection system. Implement the project to improve the security capacity of national basic networks, strengthen the construction of security protection systems for critical information infrastructure, enhance the support capacity of network security platforms, and strengthen the security of 5G, industrial Internet, big data centres and vehicle networking. Improve network security monitoring, notification and early warning,

emergency response and handling mechanisms, and enhance network security situational awareness, incident analysis and rapid recovery capabilities.

V. Priority actions

Following the law of informatization development, insisting on the combination of overall promotion and key breakthroughs, the combination of making up short boards and forging long boards, adhering to gradual and orderly progress, distinguishing priorities, giving priority to promoting special informatization actions in areas such as basic capabilities, strategic frontiers, livelihood protection and grassroots governance, accelerating new major breakthroughs in core technologies, digital economy and digital society, and promoting more obvious This will enable the people to have a greater sense of happiness and security in the development of information technology.

(i) Digital Literacy and Skills Enhancement Initiative for All

Action Objective: By 2023, a system of digital skills education and teaching resources for all will be initially formed, and the digital literacy

and skills of the information disadvantaged will be significantly enhanced; by **2025**, digital skills education and training for all will be widely available, so that the people can share

Informational development results.

Build a system of digital skills education resources for all. The Government will coordinate the formulation of a plan to promote digital skills education for all, fully mobilise social resources such as educational institutions, public libraries, operators and enterprises to optimise and expand digital skills education resources and access channels, and promote pilot demonstrations of online and offline digital skills education and training in a graded manner. Strengthen the construction of integrated media platforms to better meet the learning needs of various social groups.

Education and training in digital skills. Conducting training for the public on the use of smart terminals, the
Diversified digital skills training programmes for employment, medical care, consumer, business, finance, cyber security, etc. to promote and popularise digital skills education for all. Set up regular and scenario-based digital skills courses in schools and universities to stimulate digital innovation potential. Integrate quality traditional

cultural ethics with digital etiquette education to foster a sense of responsibility in digital citizenship, optimise the digital living environment and enhance the quality of digital life.

Precise help for information disadvantaged groups. Fully mobilise resources from all sectors of society to carry out Regular digital skills support for key groups such as low-income groups, the elderly, people with disabilities, orphans, left-behind children, children in difficulty, and residents of old revolutionary areas, remote areas, ethnic areas and areas emerging from poverty, to effectively raise the literacy level of information disadvantaged groups in the use of digital devices, access to online services, digital consumption and prevention of online fraud. Focus on the flexible integration of online and offline service methods to provide senseless help and achieve full coverage of information services. Support the development of voice, video and search technologies and software in ethnic languages, and strengthen the construction of digital education content and the supply of cultural

products in ethnic areas.

(ii) Enterprise Digital Capacity Enhancement Initiative

Action Objective: By 2023, a system for developing the digital capabilities of medium and large enterprises

By 2025, the digital capabilities of enterprises will be comprehensively enhanced, large enterprises as a whole will enter the stage of integrated integration and ecological innovation, and the quality and efficiency of SMEs will be significantly enhanced.

Accelerate the development and promotion of enterprise digital capability standard systems.

Focus on enterprise digital capability

The company will build a digital transformation methodology and digital transformation standard system, and form a number of practical supporting method sets, toolkits and case sets. Develop a roadmap for digital transformation in key industry sectors, promote the standard system for digital transformation by industry, by capacity and by phase, organize digital transformation diagnosis and benchmarking, and comprehensively promote the two-integration management system.

Promote pilot demonstrations of enterprise digital capabilities by grade and category. Take industry leading enterprises

Focusing on product innovation, production and

operation control, user service, ecological cooperation, employee empowerment, data development and other digital capability development directions, a number of replicable and replicable models will be created in a graded and classified manner to promote the transformation of enterprise operation and management from authority and process-driven to data-driven, business model from business digitalization to digital business, inter-enterprise It will also promote the transformation of enterprise operation management from authority and process-driven to data-driven, business model from business digitization to digital business, cooperation between enterprises from business collaboration to capability sharing and ecological co-construction, and development model from factor-driven to innovation-driven.

Improve the market service ecology for digital capacity building of enterprises. Strengthening government leadership.

The industry associations and industry alliances will play a full role in promoting the construction of public service platforms for digital

transformation, providing services and overall solutions such as in-depth diagnosis of capabilities, accurate matching of supply and demand, integration of solutions, sharing of knowledge and experience, cultivation of professional talents and promotion of propaganda and exchange. Encourage third-party service organisations to innovate service methods and tools.

Form a number of new service organisations that integrate strategic consulting, management optimisation, solution innovation and digital capability building. Encourage governments at all levels, leading enterprises, financial institutions and social organisations to carry out pilot competency grading and credit collection, and explore a new credit system for enterprises linked by competency, so as to continuously stimulate the momentum of enterprise transformation.

(iii) Frontier Digital Technology Breakthrough Initiative

Action Target: By 2023, significant progress will be made in the research and development of cutting-edge digital technologies such as artificial intelligence, blockchain and quantum information, and a number of integrated technologies will be implemented in several industries.

By 2025, the ecological system of cutting-edge digital technology innovation will be increasingly complete, industry-level demonstration benchmarks of convergence applications will emerge, and the scale of the industry will rise rapidly.

Promote innovative applications of artificial

intelligence at scale. Improve the body of basic AI theory

Department, carry out cutting-edge intersectional research between artificial intelligence and basic disciplines such as neuroscience, cognitive science, psychology and social science. Build and develop AI open source communities and construct AI public data sets. Promote the development of open-source frameworks for AI, build open-source software and hardware infrastructure platforms, and construct an ecological chain of software, hardware and data synergy based on open-source and open technologies. Focus on national strategies and industrial needs to accelerate the transformation and application of key AI technologies. Carry out research on the code of ethics for AI, and explore the establishment of laws and regulations and an ethical and moral framework to safeguard the healthy development of AI.

Promote the healthy and orderly development of blockchain technology applications and industrial ecology. Investing in promoting

Advance research on core technologies such as cryptography, consensus mechanisms and smart

contracts, and support the construction of a secure, controllable and sustainable underlying technology platform and blockchain open source community. Build a blockchain standard specification system, strengthen blockchain technology testing and evaluation, and develop standard specifications for blockchain industry applications in key basic areas. Carry out blockchain innovation

Application pilot, focusing on financial technology, supply chain services, government services, business technology and other areas to carry out application demonstrations. Establish a security guarantee and supporting support system adapted to the mechanism of blockchain technology.

Layout to explore quantum information technology research. Strengthen common key technologies and basic Research and development of devices. Advance the research on quantum communication, quantum computing and quantum sensing technologies, and promote the exploration of quantum computing applications and the construction of industrial ecosystems. Explore the construction of quantum information network technology and standard system.

(iv) Digital Trade Openness and Cooperation Initiative

Action Objective: By 2023, the capacity of digital trade services will be significantly enhanced and By 2025, the digital trade service system will be basically formed, the international competitiveness will be at the forefront, and the support capacity

for digital trade development will be significantly enhanced.

Carry out early demonstration of digital trade.

Relying on the Free Trade Pilot Zone and Hainan Self-By trade ports, etc., the construction of digital service export base, accelerate the creation of an important carrier of digital trade, the formation of a digital service export cluster, to create a globally competitive digital trade first demonstration area.

Improve the digital trade service system.

Strengthening overseas markets for digital trade enterprises

It will also provide information services on the needs, laws and regulations, etc. Promote the construction of the China-Central and Eastern European Customs Information Centre, explore pilot cooperation on "Smart Customs, Smart Border, Smart Link", improve the construction of the "Single Window", optimize and promote the "Belt and Road" Customs information exchange and sharing platform, and enhance the support capacity for intelligent customs clearance and facilitation. The "One Belt, One Road" customs

information exchange and sharing platform will be optimized and promoted to enhance the intelligence and customs clearance facilitation support capacity of customs. Expand the opening up of the digital trade market to the outside world and promote the coordinated regional development of digital trade.

Sound support system for digital trade development. Establish a digital trade statistics system and methods, and improve relevant statistical monitoring, operation and analysis systems. Explore a regulatory system that meets the characteristics of digital trade development in the new era, strengthen regulatory collaboration and explore fault-tolerant mechanisms for regulatory innovation.

(v) Action to enhance the capacity of grassroots intelligent governance

Action Objective: By 2023, the planning, policies and standards for grassroots smart governance will be improved, data resource integration will be significantly effective, and grassroots communities will be supported. By 2025, a grassroots smart governance system with refined service perception, accurate risk identification and networked action collaboration will be basically completed, which will strongly support the modernisation of the grassroots governance system and governance capacity.

Improve the overall planning of grassroots smart governance. Coordinate the promotion of

smart cities and smart
Community construction, strengthening the overall
planning, design and integration of infrastructure,
system platforms, application terminals, service
resources, data integration and security supervision.
Develop a standard system for grassroots smart
governance, and promote the application of
information recognition technology, high-definition
satellite remote sensing images, three-dimensional
maps, video images and intelligent perception in
grassroots governance.

**Promote the integration and sharing of data
resources at the grassroots level.** Improve local
and departmental data sharing
exchange mechanism, relying on the national data
sharing and exchange system, compacting the main
responsibility of the provincial government for data
sharing and application, strengthening the
construction of a four-level sharing and exchange
mechanism at the provincial, municipal, county and
township (street) levels, promoting the sharing
and integration of data between the grassroots
government and vertical departments, and

promoting the open use of departmental data to the grassroots as needed. Improve basic data such as geographic information, build high-quality electronic archives of buildings, houses, people, enterprises, facilities and other basic objects, and improve data integrity, standardisation and accuracy. Strengthen the correlation, comparison and analysis of data at the grassroots level and its precise use, and enhance the prevention of epidemics at the grassroots level.

The level of risk warning and management decisions in control, community security, etc.

Enhance intelligent application capabilities.

Promote the extension of digital government services to the grassroots level, and promote the optimisation and re-engineering of grassroots service processes. Relying on "Internet+" and self-service terminals to integrate services provided by government agencies, social organisations and third parties, realise electronic and standardised proofs at the grassroots level. Build and develop smart community information systems and simple application software, integrating access to business systems of public security, urban management, health, transportation, emergency response and other departments, as well as grid operators, video images, mobile terminals, etc.

The information resources are used to realise the "one network" of the district and the "one map" of the district, so as to enhance the comprehensive capability of grassroots governance in terms of perception, intervention and deployment.

Promote mass participation in governance.

Actively use the Internet to innovate grassroots party organisations and The ways, mechanisms and carriers of the activities of mass organizations. Improve the level of information technology in urban and rural grassroots party building, and improve the system of mass self-governance led by grassroots party organizations. Make full use of information technology to expand the channels for mass participation in grassroots governance, and promote the online operation of grassroots organisations and matters such as information dissemination, policy consultation, public opinion collection, democratic consultation, public services and mutual assistance in the neighbourhood. Create an "Internet + mass prevention and governance" system, and enhance the ability of supervisory departments to verify and quickly deal with clues reported by the public online.

(vi) Green and Smart Ecological Civilization Building Initiative

Action Objective: By 2023, the dynamic monitoring network and regulatory system for natural resources, ecology and environment, national parks, water and energy will be further improved.

By 2025, the digitalisation, networking and intelligence of natural resources regulation, ecological environmental protection, national park construction, water resources protection and energy use will be significantly enhanced, which will strongly support the construction of a beautiful China.

Enhancing real-time sensing, smart planning
and intelligence of natural resources and
territorial space

Regulation. Optimize and improve the foundation of natural resources, land space and natural geographical patterns

The government has been promoting the enhancement of dynamic sensing technology capabilities covering natural resources development, utilization and asset management, land space planning and implementation, arable land protection, ecological restoration, marine resources supervision, meteorological disaster, geological disaster and marine disaster monitoring, and promoting the construction of a "unified base map, unified standard, unified planning and unified platform" in accordance with the requirements of In accordance with the requirements of "unified base map, unified standard, unified planning and unified platform", we will promote the construction of a three-dimensional "one map" of natural resources and a basic information platform for land and space. It will also strengthen the intelligent application of comprehensive supervision, analysis and prediction, and macroscopic decision-making, and provide natural resources and territorial spatial data sharing and

services.

Create a smart and efficient digital governance system for the ecological environment. Enhancing the ecological environment

To improve the level of monitoring and supervision of environmental intelligence, to improve the information platform for comprehensive ecological and environmental management, and to support precise pollution control, scientific pollution control and pollution control in accordance with the law. Promote collaborative governance of regional ecological environment informatization, share relevant resources with public interest litigation, and enhance risk prevention and integrated protection capabilities. Support the Beijing-Tianjin-Hebei and Yangtze River Delta regions to build a demonstration zone for collaborative governance of the air environment informatization, support the Yangtze River Economic Belt, the Yellow River Basin and the Chengdu-Chongqing Twin Cities Economic Circle to build a demonstration zone for governance of the water ecological system informatization, and support the Guangdong-Hong

Kong-Macao Greater Bay Area to build a demonstration zone for green ecological cities. Strengthen the capacity building of climate change information technology, promote the development and utilization of climate resources, and promote green and low-carbon development. Improve the "One Belt, One Road" ecological and environmental protection big data service platform, and promote international cooperation and co-construction of ecological and environmental standards, data resources, monitoring networks and cloud service resources. Enhance the capacity of forestry and grass ecological networks and improve the digital monitoring and evaluation system of ecosystem protection effectiveness. Strengthen the capacity of enforcement and supervision of the Yangtze River fishing ban, and enhance the level of intelligent monitoring and assessment of aquatic life and protection management.

Promote the construction of intelligent water resources. Promote the integration of new generation information technology and water conservancy business

We will improve the monitoring system for large rivers and streams, strengthen the application of big data on water resources and accelerate the orderly sharing of hydrology, water resources and other important water data. Improve water measurement and intelligent scheduling capabilities by taking the river basin as a unit. Strengthen the comprehensive supervision of national water resources and continue to promote the improvement of national water conservation information management capacity.

Build smart energy systems. Promote deep integration between the energy and information sectors and improve Upgrade the level of information technology and intelligence of power grids, oil and gas, and coal infrastructure, and promote the construction of an energy system with interactive source-grid-load-storage, multi-energy synergy and complementarity, and intelligent regulation of energy demand. Implement national energy management and supervision informatization projects, and develop unified energy supervision standards and regulatory data index

systems.

(vii) Digital Village Development Initiative

Action target: By 2023, the policy system and standards of the digital village development action will be more perfect, the effect of national digital village pilot demonstration will be obvious, and the gap between urban and rural information development level will be further reduced; by 2025, the digital village will be built

In addition, a number of rural entrepreneurship parks (bases) with functions such as business incubation, technological innovation and skills training have been initially built, a number of rural e-commerce product brands with good reputation, quality and characteristics have been cultivated, and rural logistics and distribution network facilities have been improved. Rural network culture has flourished, and the rural digital governance system has become increasingly perfect.

Improve and upgrade rural infrastructure. Promote the integrated development of urban and rural information technology and increase
Speed up the construction of a new generation of

information infrastructure in rural areas, deepen the coverage of rural fibre-optic broadband and mobile broadband, and promote the **IP-based** and intelligent transformation and upgrading of cable TV networks. Accelerate the digital and intelligent transformation of infrastructure such as water conservancy, roads and electricity. Promote

Advance the development of rural smart logistics.
Accelerate the digital transformation of farmland construction and strengthen the comprehensive monitoring and supervision of farmland nationwide.
Enhance the monitoring capacity for meteorological disasters in the countryside.

Develop a rural digital economy. Accelerate the development of smart agriculture and promote a new generation of information
Information technology and advanced and applicable intelligent agricultural machinery and equipment are widely used in all aspects and fields of agricultural production and operation.
Strengthen the development and application of national agricultural and rural data, build a national agricultural and rural data platform, and establish a "one map" of agricultural and rural data.
Improve the agricultural basic data resource system and continue to promote the construction of big data on the whole industrial chain of important agricultural products. In-depth implementation of the "Internet +" agricultural products out of the village and into the city and "digital business to

promote agriculture" project. It will also promote the in-depth development of "Internet + special agriculture" and "Internet + rural tourism", cultivate new businesses such as urban agriculture, tourism agriculture and creative agriculture, and expand rural information consumption.

Promote intelligent governance in the countryside. Deepening intelligent party building and promoting the enhancement of rural grassroots The ability of party organisations to lead, mobilise, organise and serve the community. Explore new models of digital rural governance, and use data-driven, information-sharing and data-mining methods to crack the complex problems facing rural governance. Strengthen the application of information technology in group prevention and governance and joint prevention and governance in the countryside, and enhance emergency management, disaster prevention and mitigation, and epidemic prevention and control. Promote intelligent public legal services and the rule of law in villages. Improve the level of information technology for comprehensive services at the village level, and vigorously promote the

information technology for rural construction and planning management. Enhance the level of information technology for rural housing management nationwide.

Enhance the level of information and agricultural services. Build a combination of online and offline rural information

The information service system has been enriched to include market, science and technology, finance, employment training and other agricultural-related information services. Promote the construction of rural education information technology, and help rural schools to open the national curriculum in full and in full. Accelerate the development of "Internet + medical health" and optimise rural medical services.

Medicine and health management and service model.
Promote the digitisation of outstanding cultural resources in villages and strengthen the guidance of rural network culture.

Enhance the sustainable development capacity of areas emerging from poverty. Promote online poverty alleviation initiatives and data
The word rural strategy is seamlessly integrated.
Improve the dynamic monitoring and assistance mechanism for preventing return to poverty, improve the big data monitoring platform for preventing return to poverty, strengthen data sharing and docking among relevant departments, and make full use of advanced technological means to enhance monitoring accuracy. Support the inclusion of poverty-removing areas in national digital village pilots. Accelerate the upgrading of farmers' digital skills and vigorously cultivate a new cadre of farmers.

(viii) Digital Inclusive Financial Services Initiative

Action target: By 2023, the digital transformation of the financial industry will be

effective, the financial service model will be more complete, the product supply will be richer and the business reach will be broader; by 2025, an advanced, reliable and resilient infrastructure service system will be basically formed, the financial industry will be initially digitalized and intelligent, and financial universal access will be achieved.

The ability to benefit and serve the real economy has been significantly enhanced, and a regulatory system that is compatible with FinTech has been formed to provide all-round financial support for the new development pattern.

Improve digital financial infrastructure. Optimize the layout of infrastructure and promote digital Moderate competition in financial services. Promote infrastructure interconnection and free flow of factors. Further improve the credit collection system and accelerate the improvement of credit processes and credit evaluation models in key areas. Upgrade and revamp the payment and clearing system, and enhance risk prevention and control and operation and maintenance protection capabilities. Further improve comprehensive statistics on the financial industry and

accelerate the construction of a national financial infrastructure database. Accelerate the healthy development of China's financial information service industry.

Enhance the level of financial services for people's livelihood. Comprehensive use of blockchain, 5G, edge edge computing and other technologies to create a new model of multi-level, broad-coverage financial services and promote

Digital financing and digital correspondence continue to mature and improve, enhancing the reach of financial services. Effectively protect the legitimate rights and interests of financial consumers in the process of using intelligent financial products and services, and focus on solving problems such as the digital divide faced by the elderly and other groups. Strengthen the innovation of financial products related to agriculture and accelerate the application and promotion of outstanding financial technology practices in urban areas in rural areas. Expand the radius of financial services, improve service efficiency, and build a digital inclusive financial services system that is security-based, people-centric and demand-driven, so as to achieve healthy and sustainable development of inclusive finance.

Enhance the ability of finance to effectively support the real economy. Support market players to use data

Word technology to restructure the financial services process, and deepen the development and use of cross-industry financial data resources under the premise of safeguarding data security and personal privacy.

Improve the national comprehensive credit service infrastructure for SME financing, strengthen the collection and sharing of credit information on enterprises such as water, electricity, coal and gas, and improve the accessibility of SME financing. Establish a sound transaction reporting system and transaction report repository to enhance the transparency of the financial market. Optimise the supply chain financial supply of industrial chains, allocate financial resources to key areas and weak links of economic and social development, and achieve increased quantity, expansion, quality and efficiency of financial services for all types of enterprises, especially private, small and micro enterprises. Strengthen the soft connectivity with international and regional financial markets, rules and standards, and promote the institutional opening of rules, regulations, management and standards.

Improve the regulatory system for fintech innovation. Increase the development of regulatory basic rules, the
To strengthen monitoring, analysis and evaluation, explore the management mechanism of financial

technology innovation, enhance the ability of penetrating supervision, and prevent systemic financial risks from occurring. Strengthen the supervision of financial technology, fully promote the implementation of regulatory tools for financial technology innovation, strengthen the whole life cycle management of financial technology innovation activities, and build a firm "prevention" of financial and technological risks.

Wall of Fire”. Advancing the global governance of fintech cross-border financial services.

(ix) Public Health Emergency Digitalization Initiative

Action Goal: By 2023, a more digital system for public health emergencies

By 2025, the digital system for public health emergencies will be further enhanced, and information technology will play a significant role in enhancing the emergency response capability of public health emergencies.

Strengthen public health surveillance and early warning capabilities. Enhance infectious disease outbreaks and public health emergencies

Monitor the capacity of common health events and improve the sensitivity and accuracy of assessment and monitoring. Establish an intelligent early warning multi-point trigger mechanism, improve multi-channel monitoring and early warning mechanisms, and enhance real-time analysis and centralised research and judgement capabilities. Support data sharing between public health institutions and medical institutions to achieve rapid reporting of relevant information for early detection, early reporting and

early handling.

Improve emergency response capacity for public health emergencies. Strengthen centralised and unified high

Build an effective public health emergency command capacity and improve the emergency response mechanism for public health emergencies. Actively use digital technologies such as big data, artificial intelligence, the Internet of Things and cloud computing to better play a supporting role in epidemic monitoring and analysis, virus tracing, prevention, control and treatment, and resource deployment. Improve the unified national reserve and emergency supplies guarantee system, optimize the capacity guarantee and regional layout of emergency supplies, and enhance the effectiveness of the reserve.

(X) Smart Aged Care Service Expansion Initiative

Action target: by 2023, the national level of data management for the elderly will be continuously improved, and the ageing-friendly intelligent products and services will be continuously enriched to effectively support the

various needs of the national elderly services and management.

Difficult problems will be solved, the digital and intelligent level of the elderly service system will be significantly improved, the intelligent elderly market will be developed significantly, the industrial ecology will be more healthy and complete, and the elderly will be provided with a sense of access, happiness and security in their old age.

Building a national data resource system for the elderly. Coordinate government affairs in the field of elderly services and Social data resources, relying on the national basic population information database, etc., to bring together basic data sets such as health records of the elderly, social security for the elderly, organisation and service prices of elderly service providers, and elderly practitioners. Formulate standardized operation standards for senior care data resources, and form a senior care data resource system that is drawn by public demand, supervised by the government and participated by social capital.

Cultivate and standardise intelligent elderly care services. Accelerate the promotion of Internet, big data, human

The application of information technology, such as industrial intelligence, in the field of elderly care services will be deepened, helping to build an elderly care service system that is coordinated with home and community institutions and combines medical care, health and recreation. Support the research and development, upgrading and application and promotion of age-appropriate intelligent terminal products, and actively develop intelligent terminal products such as intelligent assistive devices, intelligent homes, health monitoring and elderly care. Promote the renovation and optimization of age-appropriate information services and strengthen the supply of age-appropriate digital services. Optimise the functions of government services platforms at all levels to facilitate online work for the elderly. Support communities and institutions to carry out digital skills training for ageing groups and retain the necessary offline channels for doing business services. Establish and improve a comprehensive supervision system for smart elderly services and promote the healthy development of the smart elderly market.

VI. Organization and implementation

(i) Strengthening organizational leadership

All regions and departments should further raise their ideological awareness and, under the unified leadership of the Central Committee for Network Security and Informatization, place the development of information technology in the work of the whole

Bureau more prominent position, strengthen the top-level design, overall layout, coordination, overall promotion and supervision of implementation. The Central Internet Information Office and the National Development and Reform Commission are responsible for formulating the implementation plan of the planning division of labor, clarifying the division of responsibilities, coordinating and promoting the major tasks, key projects and priority actions, and following up and supervising the implementation of the plan in various regions and departments. It will continue to improve the Digital China Development Evaluation Index System, dynamically track and monitor the progress of the construction of Digital China, regularly evaluate the implementation, analyze and discern potential risks, and issue reports on the development of Digital China. The network security and information technology committees in each region should strengthen the organisation, promotion and co-ordination of information technology development work. All regions and departments should formulate their own development plans in the field of informatization based on this plan, and

should integrate the development of informatization in townships (streets) and villages (communities) into the planning, and effectively grasp the implementation of the plan.

(ii) Sound policy system

Establish and improve the policy system for the development of digital China; around the development framework, main directions and major tasks determined in the plan, all relevant departments should improve the planning and policies in the digital economy, science and technology innovation, digital government, digital society and other related fields, and do a good job of connecting with this plan. Encourage and guide the capital market to strengthen its support for core technologies and strategic emerging industries, and build an investment and financing system with the participation of industrial funds and social capital according to a market-oriented approach. Innovate the way financial funds are supported, increase the co-ordination of existing national science and technology plans, and support the research and development of key core technologies and the testing and verification of major

technologies. Explore investments based on cloud service usage, intelligent equipment and digital transformation, which are recognized as collateralizable assets and R&D investments. Optimise the intellectual property pledge financing system and increase financing support for small and medium-sized micro and medium-sized online information enterprises with stable operations and good reputation. Coordinate the protection of intellectual property rights in the information sector, anti-monopoly

Fair competition review and other work to promote the independent and orderly flow and efficient allocation of innovation factors.

(iii) Strengthen team building

Optimise the talent training mechanism and focus on nurturing high-level research talents and highly skilled talents with craftsmanship in the field of information technology. Through building international cooperation and exchange platforms and conducting research on world-class large scientific projects, we will promote extensive exchanges of research talents. Deepen the construction of new engineering disciplines, build a number of future technology colleges and modern industrial colleges, and create a multi-level team of complex talents in the field of information technology. Continuously carry out various special entrepreneurial skills education and training programmes, improve the system of job titles, vocational qualification systems, vocational skills grading systems and other systems, and enhance the relevance and effectiveness of talent evaluation. Strengthen the education and training of leading cadres on cyber information, vigorously promote leading

cadres to learn, understand and use the Internet, enhance the ability of leading cadres at all levels to obtain data, analyse data and use data, and continuously improve their ability to master the development of information technology.

(iv) Standardized pilot demonstration

The Central Internet Information Office and the National Development and Reform Commission should focus on key industries, key areas and priority directions, coordinate and promote pilot demonstrations of information technology, organize and implement a number of demonstration projects with good foundation, high effectiveness and strong driving effect, prevent blindly following the trend and avoid duplication of construction. All regions and departments should implement them in conjunction with the actual situation, play the role of pilot demonstration, adhere to the point to lead the surface, point surface combination, timely summary of the formation of replicable and extendable practices and experience, and promote the construction of digital China to make new breakthroughs.

(v) Strengthen strategic research

Continuously track strategic planning and international frontier developments in technology and industry in the field of information technology, and strengthen research efforts and policies on strategic, forward-looking and disruptive technologies

Reserves. Strengthen theoretical research on the development of information technology with Chinese characteristics and build a theoretical research system on digital China. Encourage and promote research institutes to set up high-end think tanks and research and education bases on digital China and digital society.

(vi) Strengthening public opinion and publicity

Innovate publicity methods, enrich the means of publicity, strengthen the interpretation of policies and concepts related to informatization, and summarize and promote a number of practices and experiences, typical models and advanced figures. Promote the spirit of scientists and entrepreneurs, and stimulate the enthusiasm of innovation and entrepreneurship. Create a good atmosphere for the whole society to pay attention to, actively participate in, collaborate to support and jointly promote the development of informatization.

(This article has been abridged)