

## Chapter 18 | Creating a Robust Digital Ecosystem

We will place equal attention on delegating power and improving regulation, promote both development and standardized management, and build a system of digital rules with a view to creating an open, healthy, and secure digital ecosystem.

### Section 1 Establishing Sound Market Rules for Data as a Factor of Production

We will coordinate data development and utilization, privacy protection, and public security, and accelerate the establishment of basic systems and norms for digital resources with regard to property rights, transactions and circulation, cross-border transmission, and security protection. We will improve the mechanism for data property rights trading and industry self-governance, foster standardized data trading platforms and market entities, and develop market operating systems for data assets covering evaluation, registration and settlement, transaction matching, and dispute arbitration. We will strengthen the protection of data concerning national interests, business secrets, and personal privacy, accelerate basic legislation regarding data security and personal information protection, and strengthen the full life-cycle protection of data resources. We will improve the system of data protection based on categorization and grading to make it compatible with a big data environment. We will strengthen data security assessment and promote the flow of data across borders in a safe and orderly manner.

## Section 2

### Creating a Standardized and Orderly Policy Environment

We will build policy and regulatory systems that are suited to the development of the digital economy. We will improve the management standards for the sharing economy, platform economy, and new individual economy, clean up unreasonable administrative permits, qualifications, and eligibility requirements, and support platform enterprises in achieving innovation-driven development and boosting their international competitiveness. We will strengthen economic oversight over internet platforms in accordance with laws and regulations, make clear the role of platform companies and the oversight rules they are subject to, refine the laws and regulations on monopoly identification, and crack down on monopolistic practices and unfair competition. We will explore the establishment of regulatory frameworks for autonomous driving, online medical care, financial technology, and intelligent delivery, and improve the relevant laws, regulations, and rules for ethical reviews. We will also improve the statistical monitoring mechanism for the digital economy.

## Section 3

### Strengthening Cybersecurity

We will improve national cybersecurity laws, regulations, and institutional standards, and strengthen the protection of data resources in key areas, major networks, and information systems. We will establish a robust system for protecting critical information infrastructure and improve our capacity to maintain security, including political security. We will strengthen cybersecurity risk assessment and review. We will promote the construction of cybersecurity infrastructure, strengthen cybersecurity information sharing and work coordination across different sectors, and

improve our ability to detect cybersecurity threats, monitor them, provide early warnings, issue emergency response commands, and trace the source of attacks. We will pay more attention to the R&D of key cybersecurity technologies, accelerate innovations in AI security technology, and enhance the overall competitiveness of the cybersecurity industry. We will organize more public information and education initiatives with regard to cybersecurity and train more personnel in the cybersecurity field.

## Section 4 Building a Community with a Shared Future in Cyberspace

We will promote international exchanges and cooperation in cyberspace and work toward the formulation of international digital and cyberspace rules, primarily through the United Nations and based on the UN Charter. We will advance the establishment of a multilateral, democratic, and transparent global internet governance system, and work to put in place more equitable and reasonable governance mechanisms for internet infrastructure and resources. We will play an active part in the formulation of international rules and digital technology standards for data security, digital currency, and digital tax. We will promote the development of a global cooperation mechanism for ensuring cybersecurity and the establishment of an international coordination and cooperation mechanism for protecting data factors, handling cybersecurity incidents, and cracking down on cybercrime. We will provide less-developed countries with digital aid in the form of technology, equipment, and services, so that these countries can, too, share in the dividends of the digital age. We will actively promote cybercultural exchanges and mutual learning.

**Box 9**  
**Digital Application Scenarios**

**01 Intelligent transportation**

- Develop transport services for autonomous driving and cooperative vehicle infrastructure systems;
- Promote the application of intelligent highway management, traffic signal coordination, and bus priority systems;
- Build intelligent railways, smart civil aviation, smart ports, digital shipping channels, and smart parking lots.

**02 Smart energy**

- Promote the intelligent upgrading of coal mines, oil and gas fields, and power plants;
- Carry out extensive collection of energy consumption information and online analysis of energy efficiency to realize the interaction of power generation, transmission, loading, and storage, multi-energy integration and complementarity, and intelligent energy allocation.

**03 Intelligent manufacturing**

- Promote internet-connected equipment, digitally connected production processes, and coordinated response in supply chains;
- Facilitate production data integration, manufacturing flexibility, product customization, and intelligent management.

**04 Smart agriculture and water conservancy**

- Make wider use of precision planting, fertilization, pesticide spraying, and harvesting;
- Promote the application of intelligent technologies in greenhouse horticulture and livestock, poultry, and aquaculture farming;
- Establish smart water conservancy systems and improve the capacity of hydrological forecasts and intelligent scheduling in drainage basins.

**05 Smart education**

- Work toward the inclusion of high-quality online course resources from non-governmental organizations in public teaching programs;
- Expand the coverage of online high-quality educational resources in less-developed schools in rural and remote areas;
- Develop scenario-based and experiential learning as well as intelligent education management and evaluation.

**06 Smart medical care**

- Optimize electronic databases for health archives, medical histories, and prescriptions and speed up data sharing among medical care and health institutions;
- Promote telemedicine and advance the application of computer-aided medical image analysis and clinical diagnosis;
- Apply big data to enhance supervision over medical institutions and medical practices.

**07 Smart cultural tourism**

- Encourage tourist attractions and museums to develop online digital experience products;
- Build monitoring facilities and big data platforms for tourist attractions;
- Develop new cultural tourism services, including immersive experiences, virtual exhibition halls, and high-definition live streaming.

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<b>Box 9</b> <b>Digital Application Scenarios</b>	
08 Smart communities	<ul style="list-style-type: none"><li>▪ Promote connectivity among government service platforms, community sensory equipment, and home terminals;</li><li>▪ Develop public-interest community services such as intelligent early warning, emergency rescue and relief, and smart elderly care;</li><li>▪ Establish unmanned logistics and distribution systems.</li></ul>
09 Smart homes	<ul style="list-style-type: none"><li>▪ Develop intelligent home appliances, intelligent lighting, intelligent security monitoring, intelligent speakers, new wearable devices, and service robots, through the use of technologies such as induction control, voice control, and remote control.</li></ul>
10 Smart government services	<ul style="list-style-type: none"><li>▪ Work to realize one-stop online government services;</li><li>▪ Promote the use of electronic certificates, contracts, seals, invoices, and archives;</li><li>▪ Build a robust government service evaluation system.</li></ul>