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Some Opinions concerning Forcefully Moving Informatization Development Forward and Realistically Guaranteeing Information Security

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All provincial, autonomous region and municipal people's governments, all State Council ministries and commissions, all directly subordinate organs:

Forcefully moving informatization development and realistically guaranteeing information security has a major important significance for adjusting economic structures, transforming development methods, guaranteeing and improving people's livelihoods, and safeguarding national security. In recent years, all regions and all departments have earnestly implemented the policies and deployments of the Party Centre and the State Council, accelerated the push forward in informatization construction, established and completed information security guarantee systems, this powerfully stimulated economic and social development. At present, the informatization of all countries in the world is developing rapidly, the application of information technology has stimulated the optimized allocation of global resources and the innovation of development models, the Internet has an even deeper influence on politics, the economy, society and culture, the international competition surrounding information obtention, use and control is becoming fiercer every day, and guaranteeing information security has become an important topic in all countries. But, some problems that urgently need to be resolved still exist in our country's informatization construction and information security guarantees, the difference with developed countries in terms of broadband information infrastructure development levels has somewhat expanded, government information sharing and professional coordination levels are not high, and core technologies are controlled by people; there is insufficient strategic planning and comprehensive coordination in information security work, there is insufficient capacity to protect important information system and basic information network, mobile Internet and other technological applications have brought serious challenges to information security. We must further strengthen a sense of urgency, adopt even more powerful policy measures, forcefully move informatization development forward, and realistically guarantee information security. To this end, the following opinions are put forward.

I, Guiding ideology and main objectives.

(1) Guiding ideology

With Deng Xiaoping Theory and the important "Three Represents" thought as guidance, deeply implement the scientific development view, take stimulating the optimal allocation of resources as a rallying point, accelerate the construction of next-generation information infrastructure, promote the deep convergence of informatization and industrialization, build modern information technology industry systems, completely raise economic and social informatization development levels. Persist in vigorous use, scientific development,

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management according to the law and guaranteeing security, strengthen comprehensive coordination and top-level design, complete information security guarantee systems, realistically strengthen information security guarantee capacity, safeguard national information security, stimulate stable and relatively rapid economic development, and social harmony and security.

(2) Main objectives.

Clearly raise informatization levels in focus areas. Incessantly deepen the convergence of informatization and industrialization, powerfully support modern agricultural development with agricultural and rural informatization, clearly raise informatization in culture, education, healthcare, social security and other such focus areas; rapidly develop e-government and e-commerce, by the end of the "12th Five-Year Plan" period, a national e-government network is to be basically established, and information sharing and professional coordination frameworks are to be basically established; nationwide e-commerce trading value is to exceed 18 trillion Yuan, online retail is to occupy a proportion of social consumption and retail income exceeding 9%.

Begin the construction of next-generation information infrastructure. By the end of the "12th Five-Year Plan" period, nationwide fixed broadband access user numbers are to exceed 250 million accounts, international Internet connection broadband is to achieve 6500 Gbit per second; third-generation mobile telecommunications (3g) networks are to cover towns and countries, and the Internet Protocol version 6 (IPv6) is to be used on a commercial scale.

Gain news breakthroughs in information industry transformation and upgrading. A batch of major innovation results are to be obtained in integrated circuits, system software, crucial components and other such areas, the proportion of information industry income that the software sector occupies is to further rise.

Build the basis for national information security guarantee systems. Clearly strengthen the security protection capacity for important information systems and basic information networks, clearly raise controllability levels of informatization equipment security, clearly strengthen information security ranking, protection and other such fundamental work.

II, Implement the "Broadband China" project, build next-generation information infrastructure.

(1) Accelerate the development of broadband networks. Implement the "Broadband China" project, accelerate information network broadband upgrading with optical fibre broadband and broadband wireless mobile telecommunications as focus points. Move optical fibre broadband into urban households and administrative villages for universal broadband service, raise broadband access, network speed and broadband popularization rates. Strengthen extensive 3G network coverage, support the development of industrial chains of the 3G technology with indigenous intellectual property rights, TD-SCDMA and its subsequently evolved technology TD-LTE, scientifically plan technological coordination and

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development for 3G and its long-term evolution. Accelerate the construction of next-generation radio and television networks, move digitalization, bidirectionalization and interconnection of radio and television networks forward.

(2) Move the commercial application and cutting-edge distribution of next-generation Internet forward. Accelerate the deployment of next-generation Internet, grasp the launch of commercial IPv6 use trial points, promote the large-scale deployment and commercial application of IPv6 at the right time, move the evolution from Internet Protocol version 4 (IPv 4) towards IPv6, business migration and commercial operation forward. Perfect national top-level network frameworks for the Internet, upgrade backbone networks, realize high-speed and high-quality connections. Focus on researching next-generation Internet key chips, equipment, software and systems, promote the pace of industrialization. Accelerate the research and development of key theories and core technologies for future network systems and frameworks, strengthen strategic distributions, establish demonstration platforms for future Internet innovation and development.

(3) Accelerate three-network convergence. Summarize trial experiences, forcefully move the process of bidirectional access between radio, television and telecommunications network under the precondition of guaranteeing information and cultural security, accelerate network upgrading and transformation, and resource sharing, strengthen resource research and development, information technology and business innovation, forcefully develop converged businesses, foster and expand industries and markets related to three-network information. Accelerate the construction of corresponding legal, regulatory and standard structures, complete mechanisms and structures suited to three-network information, perfect manageable and controllable network information and cultural security guarantee systems.

III, Promote the deep convergence of informatization and industrialization, raise informatization levels of economic development

(1) Completely raise enterprise informatization levels. Spread the application of digitalized research, development and design tools, accelerate the progress of digitalization of production facilities in focus sectors and making production processes intelligent, comprehensively spread management systems for enterprise resource planning, supply chains, user relations, etc. Implement major informatization demonstration programmes, guide the shift of enterprise business applications to comprehensive integration, coordination and innovation in industrial chains. Continue to implement small and mid-size enterprise informatization promotion projects and projects to create informatized science and technology, raise the informatization levels of small and mid-size enterprises and manufacturing enterprises. Perfect enterprise informatization and industrialization integration level appraisal and authentication systems, support the development of informatized public service platforms that face concrete sectors.

(2) Expand energy-saving and emission-reduction information technology. Promote the spreading and deep application of energy-saving and emission-reduction information technology in industry, construction, traffic, shipping and other such areas, expand the

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informatization transformation of major energy-consuming and material-consuming facilities and technological processes. Establish and complete integrated resource and energy use efficiency monitoring and evaluation systems, raise bidirectional adjustment level for resource and energy demand and supply. Establish and complete comprehensive systems to monitor major polluting emissions and to manage the usage of solid waste materials, perfect supervision and management systems to deal with pollution.

(3) Strengthen the core competitiveness of the information industry. Expand support strength of major national science and technology programmes for the research and development of core basic products in the information industry and key general network technology, accelerate the promotion of the research, development and application of next-generation networks and cloud computing. Implement the industrial electronic product upgrade programme, move forward with the comprehensive integration of information technology and industrial technology, raise the intelligence levels of cars, ships, machines and other such products. Promote the transformation of electronic information product manufacturing industries from purely providing products to providing comprehensive solution plans and information services.

(4) Guide the healthy development of e-commerce. Complete security, trust, financial, logistical, standards and other such support systems, explore effective supervision and management models, establish a standardized and orderly e-commerce market order. Guide e-commerce platforms to develop towards providing full-process services that include information exchange, logistics and financial exchange. Encourage small and mid-size enterprises to launch online purchasing and selling, strengthen the coordinated operation of supply and demand chains, focus on promoting the wide application of e-commerce by small and micro enterprises. Implement mobile e-commerce trial and demonstration projects, build e-commerce trial and demonstration cities, innovate e-commerce development models, improve e-commerce development environments.

(5) Move the informatization progress of service industries forward. Promote information sharing in the banking sector, securities sector and insurance sector, support the innovation of financial products and services, stimulate the development of consumption banking, raise financial service levels aimed at small and micro enterprises, agriculture and the countryside. Accelerate moving forward with the informatization of traffic, travel, leisure, entertainment and other such services. Foster and develop the geographical information industry, forcefully develop information system integration, Internet added-value businesses and information security services, raise the informatization levels of industrial design.

IV, Accelerate informatization in the social sphere, move the construction of advanced network culture forward

(1) Improve e-government service capacity. Focus on upgrading service, supervision and management capacity, stimulate government management and innovation, strengthen e-government top-level design. With interconnection and exchange as focus point, form a uniform national e-government network perfect programme construction and management, outcome evaluation, and operations and maintenance mechanisms. Firmly move forward

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with the construction of important supervision and management information systems for drugs, foodstuffs, housing, energy, finance, pricing, etc. Promote the information sharing and professional coordination in focus areas, accelerate the extension of e-government services into streets, communities and villages, support grass-roots governments and communities in launching trials and demonstrations for management and service model innovation. Strengthen the development and use of basic information resources in the areas of geospace, natural resources, the population, legal persons, finance, taxation, statistics, etc., and stimulate resource sharing. Completely upgrade the service capacity of e-government technology, encourage the shift of professional applications to cloud computing models. Strengthen the management and application of electronic files.

(2) Raise informatization levels of social management and urban operations. Establish comprehensive social management information systems with a complete coverage. Perfect population information sharing mechanisms, realise dynamic management over the actual population, and raise dynamic population information surveys, analysis and forecast capacities. Build management platforms for information about public appeals, improve letters and visits work plans. Strengthen online public opinion analysis, complete online dynamic public opinion guidance and management mechanisms. Promote urban management information sharing, roll out grid management models, accelerate the realization of intelligent electricity networks, intelligent traffic and other such trials and demonstrations, guide the healthy development of intelligent urban construction.

(3) Accelerate progress of informatization in the area of people's livelihoods. Accelerate the construction of broadband networks in schools, promote the development and sharing of excellent digital education resources, perfect education management information systems, build life-long learning networks and service platforms aimed at the entire population, forcefully develop long-distance learning, shape comprehensive education information service systems. Perfect healthcare service and management information systems, accelerate the establishment of residents' e-health files and electronic medical histories, strengthen national and regional healthcare information sharing, lay the basis for the development of long-distance healthcare. Build labour, employment and social security information service systems that cover town and country, completely move the application of social security cards forward, promote employment information sharing. Move forward with the informatization of disaster prevention and relief, social aid, social welfare, charitable undertakings and other such social services. Raise information service capacities aimed at the disabled and other special groups.

(4) Develop advanced online culture. Encourage the development of digital cultural products having Chinese characteristics and indigenous intellectual property rights, strengthen the protection of intellectual property rights, expand digital content industries, foster digital content and network culture industry backbone enterprises, expand digital content industry chains. Strengthen the construction of focus news websites, standardize the management of comprehensive commercial websites, build a positive and healthy new online communication order and network atmosphere. Vigorously move the construction of digital libraries and other such public interest-type cultural information infrastructure forward,

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develop excellent network popular science resources, perfect public cultural information service systems.

V, Move rural and village informatization forward, ensure that information strengthens and benefits the countryside.

(1) Raise agricultural production and management informatization levels. Promote the research, development and application of information technology suited to agriculture, accelerate the convergence of agricultural production infrastructure, equipment and information technology. Raise the informatization levels of the plant products industry, aquaculture production, as well as of specialize rural cooperatives and agricultural product wholesale market operations. Strengthen agricultural production environment supervision and control, production process monitoring, sector development supervision and management, establish and perfect agricultural product quality and security tracing systems. Vigorously foster, standardize and spread informatized application models suited to agriculture.

(2) Perfect comprehensive agricultural and rural information service systems. Standardize all sorts of agricultural information service systems, establish nationwide comprehensive agricultural information service platforms, encourage the development of specialized information services, accelerate moving forward with agricultural information resource development, integration and comprehensive use. Continue to move forward with the construction of agricultural grass-roots information service stations and information teams, shape comprehensive rural information service systems with villages as nodes, counties as the basis, provinces as platforms and comprehensive nationwide planning.

VI, Complete security protection and management, guarantee information security in focus areas.

(1) Guarantee the security of important information systems and basic information networks. With regard to important information systems in energy, communications, finance and other such areas that involve the national economy and the people's livelihood, as well as telecommunications networks, radio and television networks, the Internet and other such basic networks, it is necessary to plan matters in a synchronized manner, build them in a synchronized manner and operate security protection equipment in a synchronized manner, strengthen technological protection, straiten security management, realistically raise anti-attack, anti-falsification, anti-virus, anti-paralysis and anti-secret stealing abilities. Expand guarantee strength for wireless network security management and important information systems' radio frequencies. Strengthen management over Internet sites, addresses, domain names and access service work units, perfect information sharing mechanisms, standardize Internet service market order.

(2) Strengthen security management of government and secrecy-related information systems. Straiten security management of government information technology service contracting, data centres that provide services to government organs, cloud computing service platforms, etc., must be set up inside the borders, it is prohibited to install software

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on office computers that is not related with work. Establish systems for the verification of opening government websites, uniform symbols, surveys and reports. Reduce quantity of Internet linkage points in government organs, strengthen security and secrecy preservation prevention monitoring. Implement hierarchical protection system for secrecy-related information systems, strengthen examination mechanisms for secrecy-related information systems.

(3) Guarantee the security of industrial control systems. Strengthen security protection and management of industrial control systems for nuclear facilities, aviation, advanced manufacturing, petroleum, oil and gas pipelines, electronic systems, traffic and transportation, water conservation centres, urban infrastructure and other important areas, as well as applications of the Internet of things and the construction of digital cities, regularly launch security inspections and risk evaluations. Focus on strengthening supervision and management over industrial control systems that may endanger lives or the security of public assets. Launch security surveys of key products used in focus areas, implement security risk and loophole reporting systems.

(4) Strengthen the protection of information resources and personal data. Strengthen the protection and management of basic information resources about geography, the population, legal persons, statistics, etc., guarantee the security of interconnection between information systems and information resource sharing between departments. Clarify protection requirements for sensitive information, strengthen the responsibility of enterprises and organs to protect user data and basic State data in online economic activities, strictly standardize acts of data collection by enterprises and organs inside our borders. Launch personal data protection trials in software service contracting, information technology services, e-commerce and other such areas, strengthen personal data protection work.

VII, Accelerate capacity construction, raise network and information security guarantee levels

(1) Lay down a basis for network and information security. Research and formulate national information security strategies and plans, strengthen top-level design. Implement protection structures for information security, etc., launch security construction and management at corresponding levels, do information system ranking, filing, improvement, supervision and inspection well. Strengthen network and information security emergency response work, perfect emergency response plans, strengthen guidance over and coordination of information security disaster preparation facility construction. Perfect information security authentication and approval systems, strengthen information security product authentication work, reduce duplicate inspections and duplicate fee payments.

(2) Strengthen network trust system construction and password guarantees. Complete electronic authentication service systems, move forward with the application of electronic signatures in financial and other such focus areas, and in e-commerce. Formulate e-commerce trust evaluation norms, establish Internet site and e-commerce trading platform honesty evaluation mechanism, support third parties how meet conditions to launch trust

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evaluation services. Forcefully move the application of password technologies in secrecy-related information systems and important information system protection forward, strengthen the support function of passwords in guaranteeing the security of e-government and e-commerce, in protecting citizens' personal information and other such areas.

(3) Raise network and information supervision and management capacity. Perfect national network and information security infrastructure, strengthen the construction of specialized network and information security backbone teams and emergency response technology teams, raise the capacity to discover risks and hidden dangers, for monitoring and early warning, and to deal with sudden incidents. Strengthen information sharing and exchange platform construction, complete network and information security information reporting mechanisms. Expand attack strength against unlawful and criminal activities online. Further perfect supervision and management systems, improve supervision and management capacity, strengthen guidance, supervision and management over basic information network security work. Initiate sector self-regulation, give rein to the supervisory role of social organizations and the broad netizens.

(4) Accelerate tackling of key problems and industrial development. Plan matters comprehensively, integrate forces, further expand network and information security technology research and development strength, accelerate information security technology research in cloud computing, the Internet of Things, mobile Internet, next-generation Internet and other such areas. Continue to organize and implement information security industrialization programmes, perfect government procurement policy measures and management systems related to information security, support the development of the information security industry.

VIII, Perfect policy measures

(1) Strengthen organizational leadership. Under the leadership of the National Informatization Small Leading Group and the National Network and Information Security Small Coordination Group, all relevant departments must, according to their duties, responsibilities and work division, earnestly implement all work tasks, strengthen coordination and cooperation, shape joint forces, and jointly move the development of informatization and information security guarantee work forward. All localities must list guaranteeing network and information security on their important matters agenda, gradually establish and earnestly implement network and information security responsibility systems, clarify management and leadership, determine work organs, take responsibility for supervising the implementation of network and information security rules and structures, organize the formulation of advance emergency response plans, to deal with major network and information security incidents, etc., and on the basis of the real situation in their localities, establish network and information security coordination organs at both provincial (regional, municipal) and district (city) levels.

(2) Strengthen financial policy support. Gove rein to the leverage function of fiscal policies to expand support strength for key general technology research and development for the deep convergence of informatization and industrialization, public service platforms, the

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construction of major demonstration projects, etc. Perfect supplementary mechanisms for universal rural telecommunications services, give priority to support comprehensive information infrastructure construction and improvement in rural and underdeveloped regions. Integrate the use of existing financial channels, expand financial input from the Centre, focus on supporting important fundamental work to support information security. All regions and all departments must bring expenses for basic and public network and information security infrastructure operations and maintenance, security services and inspection, etc., into their financial budgets.

(3) Accelerate the construction of regulations, structures and standards. Perfect laws and regulations for the development of informatization, network and information security, research and formulate management rules for government information security management, personal information protection, etc. Complete corresponding regulations and structures, clarify and implement the responsibilities of enterprise and undertaking work units, and social organizations in safeguarding information security. Formulate and perfect applied standards for a new generation of information technologies in focus areas, pay attention to giving rein to the technological support function of standards for industrial development. Foster standardized specialist forces for national information security, accelerate the formulation of security standards for three-network integration, cloud computing, the Internet of things, etc., Vigorously participate in the formulation of international behavioural norms for information security, Internet governance and other international norms and standards.

(4) Strengthen propaganda, education and talent fostering. Launch propaganda, education and training on informatization applications and information security facing all of society. Support the construction of academic information security and secrecy preservation teaching teams, specialist institutes, academic systems, and focus laboratories. Strengthen education in primary, secondary and tertiary education concerning information technology, information security and network ethics, launch information security education and training in government organs and secrecy preservation work units. All levels' finance departments must expand support for information security propaganda, education, training and other such public interest activities. Accelerate the fostering of innovative and applied informatization talents.

State Council

28 June 2012

国务院关于大力推进信息化发展和
切实保障信息安全的若干意见
国发〔2012〕23号

各省、自治区、直辖市人民政府，国务院各部委、各直属机构：
大力推进信息化发展和切实保障信息安全，对调整经济结构、转变发展方式、保障和改善民生、维护国家安全具有重大意义。近年来，各地区、各部门认真贯彻落实 党中

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央、国务院决策部署，加快推进信息化建设，建立健全信息安全保障体系，有力地促进了经济社会发展。当前，世界各国信息化快速发展，信息技术的应用促进了全球资源的优化配置和发展模式创新，互联网对政治、经济、社会和文化的影响更加深刻，围绕信息获取、利用和控制的国际竞争日趋激烈，保障信息安全成为各国重要议题。但是，我国信息化建设和信息安全保障仍存在一些亟待解决的问题，宽带信息基础设施发展水平与发达国家的差距有所拉大，政务信息共享和业务协同水平不高，核心技术受制于人；信息安全工作的战略统筹和综合协调不够，重要信息系统和基础信息网络防护能力不强，移动互联网等技术应用给信息安全带来严峻挑战。必须进一步增强紧迫感，采取更加有力的政策措施，大力推进信息化发展，切实保障信息安全。为此，提出以下意见。

一、指导思想和主要目标

（一）指导思想。

以邓小平理论和“三个代表”重要思想为指导，深入贯彻落实科学发展观，以促进资源优化配置为着力点，加快建设下一代信息基础设施，推动信息化和工业化深度融合，构建现代信息技术产业体系，全面提高经济社会信息化发展水平。坚持积极利用、科学发展、依法管理、确保安全，加强统筹协调和顶层设计，健全信息安全保障体系，切实增强信息安全保障能力，维护国家信息安全，促进经济平稳较快发展和社会和谐稳定。

（二）主要目标。

重点领域信息化水平明显提高。信息化和工业化融合不断深入，农业农村信息化有力支撑现代农业发展，文化、教育、医疗卫生、社会保障等重点领域信息化水平明显提高；电子政务和电子商务快速发展，到“十二五”末，国家电子政务网络基本建成，信息共享和业务协同框架基本建立；全国电子商务交易额超过18万亿元，网络零售额占社会消费品零售总额的比重超过9%。

下一代信息基础设施初步建成。到“十二五”末，全国固定宽带接入用户超过2.5亿户，互联网国际出口带宽达到每秒6500吉比特（Gbit），第三代移动通信技术（3G）网络覆盖城乡，国际互联网协议第6版（IPv6）实现规模商用。

信息产业转型升级取得突破。集成电路、系统软件、关键元器件等领域取得一批重大创新成果，软件业占信息产业收入比重进一步提高。

国家信息安全保障体系基本形成。重要信息系统和基础信息网络安全防护能力明显增强，信息化装备的安全可控水平明显提高，信息安全等级保护等基础性工作明显加强。

二、实施“宽带中国”工程，构建下一代信息基础设施

（一）加快发展宽带网络。实施“宽带中国”工程，以光纤宽带和宽带无线移动通信为重点，加快信息网络宽带化升级。推进城镇光纤到户和行政村宽带普遍服务，提高接入带宽、网络速率和宽带普及率。加强3G网络纵深覆盖，支持具有自主知识产权的3G技术TD-SCDMA及其后续演进技术TD-LTE产业链发展，科学统筹3G及其长期演进技术协调发展。加快下一代广播电视网络建设，推进广播电视网络数字化、双向化和互联互通改造。

（二）推进下一代互联网规模商用和前沿性布局。加快部署下一代互联网，抓紧开展IPv6商用试点，适时推动IPv6大规模部署和商用，推进国际互联网协议第4版（IPv4）

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向IPv6的网络演进、业务迁移与商业运营。完善互联网国家顶层网络架构，升级骨干网络，实现高速度高质量互联互通。重点研发下一代互联网关键芯片、设备、软件和系统，推动产业化步伐。加快未来网络体系架构关键理论和核心技术的研发，加强战略布局，建设面向未来互联网创新发展的示范平台。

(三) 加快推进三网融合。总结试点经验，在确保信息和文化安全的前提下，大力推进三网融合，推动广电、电信业务双向进入，加快网络升级改造和资源共享，加强资源开发、信息技术和业务创新，大力发展融合型业务，培育壮大三网融合相关产业和市场。加快相关法律法规和标准体系建设，健全适应三网融合的体制机制，完善可管、可控的网络信息和文化安全保障体系。

三、推动信息化和工业化深度融合，提高经济发展信息化水平

(一) 全面提高企业信息化水平。推广使用数字化研发设计工具，加快重点行业生产装备数字化和生产过程智能化进程，全面普及企业资源计划、供应链、客户关系等管理信息系统。实施重大信息化示范项目，引导企业业务应用向综合集成和产业链协同创新转变。继续实施中小企业信息化推进工程和制造业信息化科技工程，提高中小企业和制造业企业信息化水平。完善企业信息化和工业化融合水平评估认定体系，支持面向具体行业的信息化公共服务平台发展。

(二) 推广节能减排信息技术。推动工业、建筑、交通运输等领域节能减排信息技术的普及和深入应用，加大主要耗能、耗材设备和工艺流程的信息化改造。建立健全资源能源综合利用效率监测和评价体系，提升资源能源供需双向调节水平。建立健全主要污染物排放监测和固体废弃物综合利用信息管理系统，完善污染治理监督管理体系。

(三) 增强信息产业核心竞争力。加大国家科技重大专项对信息产业核心基础产品、网络共性关键技术开发的支持力度，加快推动新一代移动通信、基础软件、嵌入式软件以及制造执行系统、工业控制系统、大型管理软件等技术的研发和应用。加强统筹规划，积极有序促进物联网、云计算的研发和应用。实施工业电子产品提升工程，推进信息技术与工业技术融合创新，提高汽车、船舶、机械等产品智能化水平。推动电子信息产品制造企业由单纯提供产品向提供综合解决方案和信息服务转变。

(四) 引导电子商务健康发展。健全安全、信用、金融、物流和标准等支撑体系，探索有效监管模式，建立规范有序的电子商务市场秩序。引导电子商务平台向提供涵盖信息流、物流、资金流的全流程服务发展。鼓励大中型企业开展网络采购和销售，加强供应链协同运作，重点推动小型微型企业普及电子商务应用。实施移动电子商务试点示范工程，创建电子商务试点示范城市，创新电子商务发展模式，改善电子商务发展环境。

(五) 推进服务业信息化进程。推动银行业、证券业和保险业信息共享，支持金融产品和服务创新，促进消费金融发展，提高面向小型微型企业和农业农村的金融服务水平。加快推进交通、旅游、休闲娱乐等服务业信息化。培育和发展地理信息产业，大力发展信息系统集成、互联网增值业务和信息安全服务。提高工业设计信息化水平。

四、加快社会领域信息化，推进先进网络文化建设

(一) 提升电子政务服务能力。围绕提升服务和监管能力，促进政府管理创新，加强电子政务顶层设计。以互联互通为重点，形成统一的国家电子政务网络，完善项目建设管理、绩效评估和运行维护机制。扎实推进药品、食品、住房、能源、金融、价格

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等重要监管信息系统建设。推动重点领域信息共享和业务协同，加快电子政务服务向街道、社区和农村延伸，支持基层政府和社区开展管理和服务模式创新试点示范。加强地理空间和自然资源、人口、法人、金融、税收、统计等基础信息资源的开发利用，促进共享。全面提升电子政务技术服务能力，鼓励业务应用向云计算模式迁移。加强电子文件管理与应用。

(二) 提高社会管理和城市运行信息化水平。建立全面覆盖的社会管理综合信息系统。完善人口信息共享机制，实现实有人口动态管理，提高人口信息动态监测和分析预测能力。建设公众诉求信息管理平台，改进信访工作方式。加强网络舆情分析，健全网上舆论动态引导管理机制。推动城市管理信息共享，推广网格化管理模式，加快实施智能电网、智能交通等试点示范，引导智慧城市健康建设健康发展。

(三) 加快推进民生领域信息化。加快学校宽带网络建设，推动优质数字教育资源开发和共享，完善教育管理信息系统，构建面向全民的终身学习网络和服务平台，大力发展远程教育，形成教育综合信息服务体系。完善医疗服务与管理信息系统，加快建立居民电子健康档案和电子病历，加强国家和区域医药卫生信息共享，夯实远程医疗发展的基础。构建覆盖城乡居民的劳动就业和社会保障信息服务体系，全面推行社会保障卡应用，推动就业信息共享。推进减灾救灾、社会救助、社会福利和慈善事业等社会服务信息化。提高面向残疾人等特殊人群的信息服务能力。

(四) 发展先进网络文化。鼓励开发具有中国特色和自主知识产权的数字文化产品，加强知识产权保护，壮大数字内容产业，培育数字内容与网络文化产业骨干企业，扩展数字内容产业链。加强重点新闻网站建设，规范管理综合性商业网站，构建积极健康的网络传播新秩序和网络氛围。积极推进数字图书馆等公益性文化信息基础设施建设，开发精品网络科普资源，完善公共文化信息服务体系。

五、推进农业农村信息化，实现信息强农惠农

(一) 提高农业生产经营信息化水平。推动农业适用信息技术的研发应用，加快推进农业生产基础设施、装备与信息技术的融合。提高种植业、养殖业生产信息化和农村专业合作社、农产品批发市场经营信息化水平。加强农业生产环境监控、生产过程监测、行业发展监管，建立和完善农产品质量安全追溯体系。积极培育、示范、推广适用的农业信息化应用模式。

(二) 完善农业农村综合信息服务体系。规范各类农业信息服务系统，建立全国农业综合信息服务平台，鼓励发展专业信息服务，加快推进涉农信息资源开发、整合和综合利用。继续推进农村基层信息服务站和信息员队伍建设，形成村为节点、县为基础、省为平台、全国统筹的农村综合信息服务体系。

六、健全安全防护和管理，保障重点领域信息安全

(一) 确保重要信息系统和基础信息网络安全。能源、交通、金融等领域涉及国计民生的重要信息系统和电信网、广播电视网、互联网等基础信息网络，要同步规划、同步建设、同步运行安全防护设施，强化技术防范，严格安全管理，切实提高防攻击、防篡改、防病毒、防瘫痪、防窃密能力。加大无线电安全管理和重要信息系统无线电频率保障力度。加强互联网网站、地址、域名和接入服务单位的管理，完善信息共享机制，规范互联网服务市场秩序。

(二) 加强政府和涉密信息系统安全管理。严格政府信息技术服务外包的安全管理，为政府机关提供服务的数据中心、云计算服务平台等要设在境内，禁止办公用计算机安装使用与工作无关的软件。建立政府网站开办审核、统一标识、监测和举报制度。

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减少政府机关的互联网连接点数量，加强安全和保密防护监测。落实涉密信息系统分级保护制度，强化涉密信息系统审查机制。

（三）保障工业控制系统安全。加强核设施、航空航天、先进制造、石油石化、油气管网、电力系统、交通运输、水利枢纽、城市设施等重要领域工业控制系统，以及物联网应用、数字城市建设中的安全防护和管理，定期开展安全检查和风险评估。重点对可能危及生命和公共财产安全的工业控制系统加强监管。对重点领域使用的关键产品开展安全测评，实行安全风险和漏洞通报制度。

（四）强化信息资源和个人信息保护。加强地理、人口、法人、统计等基础信息资源的保护和管理，保障信息系统互联互通和部门间信息资源共享安全。明确敏感信息保护要求，强化企业、机构在网络经济活动中保护用户数据和国家基础数据的责任，严格规范企业、机构在我国境内收集数据的行为。在软件服务外包、信息技术服务和电子商务等领域开展个人信息保护试点，加强个人信息保护工作。

七、加快能力建设，提升网络与信息安全保障水平

（一）夯实网络与信息安全基础。研究制定国家信息安全战略和规划，强化顶层设计。落实信息安全等级保护制度，开展相应等级的安全建设和管理，做好信息系统定级备案、整改和监督检查。强化网络与信息安全应急处置工作，完善应急预案，加强对网络与信息安全灾备设施建设的指导和协调。完善信息安全认证认可体系，加强信息安全产品认证工作，减少重复检测和重复收费。

（二）加强网络信任体系建设和密码保障。健全电子认证服务体系，推动电子签名在金融等重点领域和电子商务中的应用。制定电子商务信用评价规范，建立互联网网站、电子商务交易平台诚信评价机制，支持符合条件的第三方机构开展信用评价服务。大力推动密码技术在涉密信息系统和重要信息系统保护中的应用，强化密码在保障电子政务、电子商务安全和保护公民个人信息等方面的支撑作用。

（三）提升网络与信息安全监管能力。完善国家网络与信息安全基础设施，加强网络与信息安全专业骨干队伍和应急技术支撑队伍建设，提高风险隐患发现、监测预警和突发事件处置能力。加强信息共享和交流平台建设，健全网络与信息安全信息通报机制。加大对网络违法犯罪活动的打击力度。进一步完善监管体制，充实监管力量，加强对基础信息网络安全工作的指导和监督管理。倡导行业自律，发挥社会组织和广大网民的监督作用。

（四）加快技术攻关和产业发展。统筹规划，整合力量，进一步加大网络与信息安全技术研发力度，加强对云计算、物联网、移动互联网、下一代互联网等方面的信息安全技术研究。继续组织实施信息安全产业化专项，完善有关信息安全政府采购政策措施和管理制度，支持信息安全产业发展。

八、完善政策措施

（一）加强组织领导。在国家信息化领导小组和国家网络与信息安全协调小组的领导下，各有关部门要按照职责分工，认真落实各项工作任务，加强协调配合，形成合力，共同推进信息化发展和网络信息安全保障工作。各地区要将保障网络与信息安全列入重要议事日程，逐级建立并认真落实网络与信息安全责任制，明确主管领导，确定工作机构，负责督促落实网络与信息安全规章制度，组织制定应急预案，处理重大网络与信息安全事件等，并根据本地实际情况，建立省（区、市）、地（市）两级网络与信息安全协调机制。

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(二) 加强财税政策扶持。发挥财税政策的杠杆作用，加大对信息化和工业化深度融合关键共性技术研发与推广、公共服务平台、重大示范工程建设等的支持力度。完善农村通信普遍服务补偿机制，优先支持农村、欠发达地区综合信息基础设施建设和改造。整合利用现有资金渠道，中央财政加大投入，重点支持信息安全重要基础性工作。各地区、各部门要将基础性公益性网络与信息安全设施运行维护、安全服务和检查等费用纳入财政预算。

(三) 加快法规制度和标准建设。完善信息化发展和网络与信息安全法律法规，研究制定政府信息安全管理、个人信息保护等管理办法。健全相关法规制度，明确并落实企事业单位和社会组织维护信息安全的责任。制定完善新一代信息技术在重点领域的应用标准，注重发挥标准对产业发展的技术支撑作用。培育国家信息安全标准化专业力量，加快制定三网融合、云计算、物联网等领域安全标准。积极参与制定信息安全国际行为准则、互联网治理等国际规则和标准。

(四) 加强宣传教育和人才培养。开展面向全社会的信息化应用和信息安全宣传教育培训。支持信息安全与保密学科师资队伍、专业院系、学科体系、重点实验室建设。加强大中小学信息技术、信息安全和网络道德教育，在政府机关和涉密单位定期开展信息安全教育培训。各级财政要加大对信息安全宣传教育和培训等公益性活动的支持。加快培养创新型、应用型信息化人才。

国务院

二〇一二年六月二十八日