High-tech Beijing Action Plan (2009 - 2012)
—— Promoting Innovation Activities

This action has been prepared specifically to faithfully implement the scientific outlook on development and the Opinions of the State Council on Calling into Full Play the Role of Science and Technology in Promoting Stable and Rapid Economic Development (Guofa [2009]No.9), summarize and spread the successful experience in preparation for and hosting of Beijing 2008 Olympic Games especially in high-tech Olympics, accelerate construction of high-tech Beijing, give full play to the role of high-tech Beijing in supporting cultural Beijing and green Beijing and realize the objectives of boosting domestic demand, maintaining economic growth, adjusting economic structure, upgrading and benefiting the people’s livelihood with the help of science and technology.

1. Guiding ideology and overall objective

The guiding ideology for construction of high-tech Beijing is fully implementing the decisions of the 17th plenary session of CPC, implementing the development strategy of cultural Beijing, high-tech Beijing and green Beijing under the guidance of the scientific outlook on development, calling into full play the scientific and technological strength of the capital city of Beijing, accelerating construction of Zhongguancun National Innovation Model Park and substantially improve the innovation capabilities by proactively undertaking the national key scientific and technological development projects and construction of key scientific and technological infrastructure, accelerating development of high-tech industry and promoting industrial setup optimization and upgrading in Beijing by proactively implementing technology-driven industrial development program, completing the corporate technical innovation service platform and enhancing comprehensive corporate competitiveness by intensifying efforts of corporate technical innovation capacity building, and contributing substantially to construction of a prosperous, civilized, harmonious and habitable capital city by improving the service level of people-oriented science and technology in the fields of urban construction, public administration, education and culture, medical services and healthcare, public security, ecological civilization and construction of a new socialist countryside in Beijing.

Mobilize all actors in the city to faithfully implement “2812 high-tech Beijing construction project” and endeavor to build Beijing into a central, pilot area in China's innovation-backed development drive and a world-class scientific and technological innovation center. In 2012, the main objectives of high-tech Beijing action plan are:

——Innovation capabilities will significantly improve. Science and technology input will be maintained at a relatively high level, R&D investment in the city account for over 6% of citywide GDP, corporate R&D expenditures take up 50% of citywide R&D expenditures and a market-oriented and enterprise-based technical innovation system combining industry, academia, research community and consumer community
will become more complete; Undertake a group of national key scientific and technological development projects and scientific and technological infrastructure construction projects, and undertake over 36% of state-level scientific and technological development projects nationwide; Master a number of world-leading common, key technologies and ensure each 10,000 local residents have at least 13 patent applications pending. The scientific and technological radiation and diffusion capability of the capital city will significantly improve and technology trade volume reach CNY 130 billion.

——Science and technology will have much greater contributions to social and economic development of the capital city. Scientific payoff industrialization capabilities will improve significantly, high-tech industry prosper, scientific and technological innovation become the main driving force behind economic structure optimization and upgrading, value added in high-tech industry, information service industry and technological service industry account for 25% of citywide GDP and commercially competitive products and enterprises grow rapidly. The contributions from science and technology to industrial development, urban construction, public administration, ecological civilization, construction of a new socialist countryside and livelihood improvement will significantly improve; science and technology will play an increasingly important role in promoting sustainable economic and social development of the capital city; per 10000 RMB GDP energy consumption, water consumption and pollutant emission level will continue dropping and remain ahead of the rest of the country.

——Construction of Zhongguancun National Innovation Model Park will make remarkable achievements. Faithfully implement the State Council’s written instructions on construction of Zhongguancun National Innovation Model Park, call into full play the unique strengths of colleges and universities, scientific research institutes and high-tech enterprises where innovation resources concentrate, intensify reform and innovation efforts, further promote pilot projects of equity incentive, technology financing and government procurement, endeavor to foster and concentrate outstanding innovation-minded talents especially industry leaders, focus on developing and commercializing world-leading scientific payoffs, build up a group of world-class innovation-oriented enterprises, foster a group of world-famous brands, comprehensive improve the innovation capabilities and driving force of Zhongguancun National Innovation Model Park and bring scientific and technological development and innovation in Zhongguancun Area to another level before 2020.

——the scientific attainments citywide will significantly improve. Faithfully implement the Nationwide Scientific Awareness Action Plan Program (2006-2010-2020), accelerate construction of a learning city, make the advanced concepts of lifelong learning, team learning and end-to-end learning deeply rooted among the people, endeavor to create a relaxed, harmonious and inspiring culture and atmosphere of innovation and further enhance the creativity of the general public. Scientific and technical manpower will highly concentrate in the city, innovation-minded talents with global vision will emerge in large numbers and over 230 out of each 10000 people will be scientists and engineers. Scientific awareness-raising efforts will deepen and scientific knowledge, methods and scientism will be widespread and citywide scientific and cultural attainments will significantly improve.
2. Proactively undertake national key scientific and technological development projects and key scientific and technological infrastructure construction projects to significantly improve innovation capabilities

(1) Interface with national key scientific and technological development projects.

Call into full play the scientific and technological strength of the capital city, further complete the relevant mechanisms, integrate resources, intensify inputs, actively organize and support various scientific and technological research institutes and enterprises in Beijing to undertake and participate in a number of national key scientific and technological development projects defined in the National Medium and Long-term Scientific and Technological Development Program (2006-2020).

Readjust and innovate organizational form of implementation for key scientific and technological development projects, highlight the investment priorities and endeavor to make a number of significant achievements within three years. Rely upon important products as spearhead, call into full play the leading role of industry-leading enterprises, adopt project owner system, delegate assignments to target beneficiaries, combine industry, academia, research community and consumer community and motivate more small and medium-sized high-tech enterprises to participate in implementation of national key scientific and technological development projects and share the scientific and technological achievements.

(2) Undertake national key scientific and technological infrastructure construction projects.

Pool and integrate scientific and technological resources in Beijing, provide required supporting services, proactively undertake national key scientific and technological infrastructure construction projects, endeavor to build a group of high-level labs and scientific research facilities in support of innovation capacity building in the capital city.

3. Proactively implement technology-backed industrial development program to facilitate rapid, sound economic development in the capital city.

Integrate various innovation resources like human, financial resources and policies to support a number of scientific payoff commercialization projects in industrial sectors of IT, biomedicine, new energy and environmental protection, automobile, equipment manufacturing, cultural and creative, technological service and urban-type modern agriculture; endeavor to make breakthrough in significant key technologies and help a group of enterprises grow stronger and bigger. Additional output value of over CNY 500 billion is expected in 2012.

(1) Accelerate development of information technology industry

Solidify the leading position of mobile communications industry, continue providing greater support to key enterprises, attract domestic and foreign mobile communication equipment manufacturers to establish presence in Beijing and continue enlarging the existing production scale of mobile phone products. Support
construction of third-generation mobile communications (3G) industry parks, accelerate building of 3G industry chain and promote industrialization of chips, terminals and test equipments. Support development of TD-SCDMA and WCDMA towards post-3G technology (LTE).

Promote application of digital TV. Proactively push citywide switch to digital TV and build interactive digital TV service platform, integrate digital TV industry resources to form a complete industry chain; drive upgrading of digital broadcasting equipment, signal processing and multimedia production equipment, transmitting and user access equipment; promote upgrading of digital audiovisual industry, enrich the functions of consumer electronics such as mobile phone and PDA and make digital TV industry a new growth point.

Enhance the competitiveness of computer and the next-generation Internet. Proactively develop high-end servers, large-volume storage equipment, industrial control computer products, and accelerate upgrading from low-value-added industry to high-value-added one. Popularize low-cost computers based on Chinese proprietary CPU and spread such computers in rural market and industrial application market; support key enterprises to expand their overseas markets, accelerate upgrading of internet and encourage development of characteristic applications based on the next-generation internet.

Enhance the level of overall development of integrated circuit industry and proactively undertake national key scientific and technological development projects to realize key technological breakthroughs.

Overcome the bottleneck to development of large-screen LCD display industry; support key manufacturers of flat panel LCD displays to build eighth-or-above-generation production lines and upgrade the existing fifth-generation production lines; Improve and innovate TFT-LCD production process and acquire capabilities to construct high-generation TFT-LCD production lines without outside help. Draw together glass base plate, Polaroid and LCD TV manufacturers around the 8th-generation TFT-LCD products to build a complete TFT-LCD industry chain.

Foster new forms of business in software and information service industry, and promote development of middleware, industrial application, digital content and service outsourcing; spread a number of proprietary and technically advanced software products and industry solutions; support a group of software outsourcing companies armed with core technology to grow stronger and bigger; build a number of world-class software industry conglomerations; proactively undertake global offshore service outsourcing projects and complete the outsourcing system. Raise the informatization level in public service sectors like medical services and healthcare, food and work safety, energy saving and emission reduction monitoring. Greatly develop Internet value-added services, information content services, mobile value-added services, and digital TV multimedia value-added services.

The additional output value and revenue in IT industry of the city will reach CNY 250 billion in 2012, of which CNY 100 billion will come from manufacturing industry and the remaining from software and information service industry.
(2) Accelerate development of biomedicine industry

Facilitate rapid development of biomedicine industry in Beijing by focusing on improving the independent innovation capabilities and international competitiveness of the industry and following the industry promotion principle of coordinated development of high-end biomedicine manufacturing and medical R&D services.

In particular, facilitate industrialization of a number of significant scientific payoffs including anti-tumor medicine Di’ao and anti-bird-flu medicine Peramivir, and support mass production of new drugs like monoclonal antibody drug Nimotuzumab and national Type 1 new hemostat Haemocoagulase Agkistrodon for Injection.

Solidify the leading position of vaccine industry in the country. Build a vaccine industry park in the city to facilitate rapid industrialization of world-class new products like human bird-flu vaccine, therapeutic hepatitis B vaccine and Pneumococcal 9-Valent Conjugate Vaccine, and hopefully to form an industry conglomeration.

Guide traditional Chinese medicine industry through transition to health industry, foster nutritional healthcare and spiritual healthcare products as new growth point in traditional Chinese medicine industry, improve the automated pill production process for famous products, develop key technologies in quality control and online detection and rapidly enhance the technology content of famous TCM brands in Beijing such as Tong Ren Tang.

Assist medical equipment industry in improving independent innovation capabilities, give primary considerations to development of digital diagnostic and treatment equipment, high-value-added biomedicine materials, support R&D of new, key products like electrically operated controlled respiratory apparatus, high-resolution digital X-ray machine, open permanent magnet MRI system, intravascular carrier-free drug eluting support system and artificial joint, and help a group of growth enterprises grow larger rapidly. Provider greater support to R&D of stem cell and organic engineering in key areas of biomedical engineering and promote their clinical application and industrialization.

Enable rapid development of biomedicine R&D service industry and facilitate industry alliances such as Alliance of Bio-Box Outsourcing, China (ABO) in conducting international accreditation and international market expansion activities, accelerate construction of biomedicine R&D service incubators and promote upgrading of biomedicine industry to a high-end one.

Biomedicine industry in the city will realize additional output value of CNY 20 billion in 2012.

(3) Accelerate development of new energy and environmental industry

Speed up extensive application of solar-energy, biomass energy and wind energy utilization technologies, and fuel development of new energy industries like photovoltaic industry and biomass energy industry. Spread building-specific energy conservation technologies such as energy-efficient illumination and heat supply technologies, as well as industrial energy conservation technologies including high-efficiency
motor energy conservation, transformer system energy conservation, high-performance lining material fabrication technology, high-temperature fume purification technology and high-temperature fume residual heat utilization technology. Drive development of energy conservation technology for new-energy-fueled motor vehicles; promote application of environmental protection technologies like modern environmental monitoring technology, motor vehicle exhaust gas purification, indoor air purification equipment, fume denitration technology, high-efficiency sewage treatment and recycling, environmentally preferable urban waste treatment and recycling technology and equipment and solid waste treatment and disposal equipment; promote wide-scale application of homemade membrane bioreactor (MBR) and speed up construction of MBR industry parks. Make greater efforts to apply new products developed in Zhongguancun National Innovation Model Park in sewage and garbage treatment and form a considerable industrial scale in the fields of sewage and garbage treatment, obsolete electrical appliances and consumer electronics disposal and speed up development of emerging environmental industry.

The new energy and environmental industry will realize additional output value of CNY 30 billion in 2012.

(4) Accelerate development of equipment manufacturing industry

Based on the equipment manufacturing industry’s infrastructure in Beijing, and focusing on improving capabilities to complete package of important equipment, efforts will be made to enhance the capabilities to complete package of equipments including IC manufacturing equipment, LCD manufacturing equipment, photovoltaic equipment, wind power generation equipment, security inspection equipment, construction machinery, new-type environmental equipment, rail traffic equipment, power generation and transmission equipment and numerically controlled machine, with independent innovation capabilities as the support and localization of key equipment as the support and construction of high-value projects as the entry point. Drive development of key equipment and components and parts with the help of packaged equipment, facilitate business expansion of key enterprises in pillar industries and realize upgrading of industry size and technology; give primary considerations to development of large-size thin-film solar energy equipment, large-sized container/vehicle security inspection system, air flight container carbon/vehicle security inspection system, large-size hazardous waste disposal equipment, medical equipment, large-size medical waste disposal equipment, hazardous chemical disposal equipment, MBR sewage treatment equipment, rail transport equipment, rail traffic onboard and ground control system, 600 megawatts-or-above super critical power station equipment, multi-coordinate interlinked heavy-duty numerically controlled gantry type boring and milling machine, precision numerically controlled machine, grinding machine, 1 million megawatt-level nuclear and thermal power generating units integrated automatic control system; proactively promote development of modern manufacturing service industry and facilitate upgrading of conventional industries.

The equipment manufacturing industry will realize additional output value of CNY 60 billion in 2012.
(5) Speed up development of auto industry

In light of the development trend of China’s auto industry, by focusing on key projects and integrating resources, one-two-three-four program will be implemented, namely, fostering one leading automaker, realizing two breakthroughs in independent innovation, completing three links in the industry chain and building four industrial parks. Specifically, further solidify and enhance the core competitiveness of Beiqi Foton Co., Ltd, make breakthrough in mass production of local brands of passenger vehicles and commercialization of new-energy-fueled vehicles; further refine the R&D, manufacturing and service parts of auto industry chain, build four industrial parks for production of complete vehicles, manufacture of high-end parts and components, R&D and auto component logistics respectively, in an effort to build local auto industry into an important pillar high-end industry in the capital city.

Realize mass production of local-brand passenger vehicles. Proactively develop new staple products in the fields of sedan and cross-country vehicle. Expand the production scale of EURO V hybrid powered passenger vehicles and deepen development of purely electric vehicles based on EURO V bus and seek development of hydrogen-fueled bus through domestic or international cooperation. Complete Foton Auto R&D Center, build Beijing Auto R&D Center and National Automobile Quality Supervision and Test Center. Implement Foton-Comings engine project, Foton Benz medium and heavy-duty truck and engine project and develop chassis systems (braking system, steering system and suspension system) and electronic and electric control systems (CAN bus, EMS, auto functional electronics and car-body electronics) through cooperation with famous domestic and foreign auto component manufacturers.

The auto industry in the city will realize additional output value of CNY 60 billion in 2012.

(6) Fuel development of cultural and creative industry

Research and develop entertainment intelligent simulated virtual stage technology, integrate and spread multimedia rendering technology and promote development of design and creative industries; research into key visual media processing technologies and develop digital artwork creation platform and animation platform. Arrange for R&D of two-way transmission cable TV technology that enables the general public to enjoy video on demand, conveniences and online e-commerce services. Give generous support to city-level cultural and creative industry conglomerations, further develop staple industries like TV and film, design service and artwork trading, and foster a group of business conglomerates in publishing and distribution, entertainment, sports and recreation and branded exhibition; support development and application of modern copyright protection technology and promote IP protection and trading; Accelerate R&D and promotion of digital sports products and electronic competitive sports products and fuel development of creative sports industry. Endeavor to maintain annual average growth rate of over 15% in output value of cultural and creative industry in the city.

The cultural and creative industry will realize additional output value of CNY 80 billion in 2012.
(7) Speed up development of scientific and technological service industry

Integrate the innovation resources in colleges and universities, scientific research institutes, enterprises and intermediary agencies in the city to facilitate rapid development of scientific and technological service industry in the capital city.

Support colleges and universities and scientific research institutes to provide R&D services to enterprises, encourage development of third-party R&D service providers, form a number of domestically leading providers of R&D, pilot scale test and final test services in the fields of software, integrated circuit, consumer electronics, new materials, biomedicine, energy conservation and environmental protection. Maintain and enhance the domestic superiority of the capital city in urban and construction planning, industrial design, engineering design and geologic investigation. Accelerate construction of industrial design park, integrated circuit design park and other important industrial parks, and implement design innovation improvement program.

Build a national technology trade center that integrates information service, policy consultation, valuation and credit rating services to provide an enabling environment for development of technological service trade in the city. Proactively facilitate construction of China Technology Exchange to provide an efficient trading platform for buyers and sellers with standard services such as technological property right listing, transaction and settlement.

Further construction of various market-oriented and specialized on-campus science park, high-tech business incubators, returned Chinese students startup parks and startup service centers. Foster a number of market-oriented and professionally competent scientific and technological intermediary agencies in the fields of technology transfer, financing and investment and intellectual property rights.

Rely upon the abundant information resources in Beijing to stimulate development of consulting services for enterprise management, industry research, information system planning and management of science and technology as a new growth point in the capital city.

The objective is to realize additional output value of CNY 100 billion from technological service industry in the city in 2012.

(8) Speed up development of urban-type modern agriculture

Accelerate development of advantaged seed industry. Promote combination of industry, academia, research community and consumer community, speed up development of remarkably advantaged industrial sectors such as milk cow, live pig, meet, egg and poultry, cold-water fish, ornamental fish, corn, wheat, fruit, flower, vegetable and potatoes and increase their market shares. Promote agricultural industrialization, extend agricultural value chain, increase value-added of agricultural produces by relaying upon R&D, importation and integration and giving full play to the driving role of leading enterprises, with agricultural products processing rate of over 60% and post-processing value increment percent of over 90%. Promote effective integration between agriculture and countryside tourism by including technological and cultural
elements in agriculture; raise the level of countryside tourism; rely upon technological innovation to improve the quality of characteristic agricultural produces and further increase their shares in high-end markets by expanding their production scale. Giving full play to the leading role of existing agricultural technology parks and build an arena for demonstration of high-tech agricultural practice.

4. Spread and apply a group of new technologies, products and processes to comprehensively enhance the role of science and technology in supporting economic and social development in Beijing.

While implementing the central government’s ten measures for boosting domestic demand and the State Council’s Instructions on Promoting Stable and Rapid Economic Development by Giving Full Play to the Supporting Role of Science and Technology, spread a number of proprietary and proven technologies and products that can drive formation of new market demand and improve the people’s livelihood; intensify efforts to industrialize and commercialize these products and technologies.

(1) Information infrastructure construction program

Build a world-class citywide high-speed information network, significantly improve the internet broadband access criteria by providing 20M household broadband access, 100M corporate broadband access and 10,000 M broadband access to six high-end industrial sectors. Underground access points will cover the urban, suburban and subway areas to meet the requirements of expansion of information infrastructure. Complete construction of 800M wireless e-government network and wired broadband e-government network to the highest standard to meet the operational requirements of various government affairs. Plan and build countryside information infrastructure in light of the local conditions and fully improve the information exchange and transmission capabilities in rural areas, with optical fiber cable network coverage at the administrative village level reaching 100%. Various technologies such as coaxial RF cable, LAN and wireless LAN will be adopted to realize broadband access.

Accelerate construction of 3G mobile communication system, develop new-type services encompassing the 3G mobile communication and mobile internet access. Promote application of Chinese 3G mobile communication standard, establish 3G application industry alliance and drive rapid development of information content service industry.

Intensify construction of information security facilities. Complete construction of information security emergency response platform, internet credibility system, government information security disaster recovery and backup center and citywide radio automated monitoring system. Complete construction of urban monitoring, work safety administration and emergency response systems.

CNY 60 billion will be invested in construction of information infrastructure in Beijing in 2012, when the domestically leading and world-class information infrastructure will be built in the capital city to serve the central government and whole country, local residents and industrial development in the city.
(2) Food safety program

Build technological support system for food safety at the sources of agricultural produces. Accelerate transfer and application of production technology, monitoring technology and norms and standards used in safe and secure supply of agricultural produces for Beijing 2008 Olympic Games. Intensify research and alternative application of new-type safety inputs in agricultural production, research into technologies for analysis and control of potential safety hazards in agricultural production, accelerate application of agricultural produces safety profile, traceability and detection technologies, complete the technical regulations for safety in agricultural production and product quality standards system and build safety technology transfer and service system cover the whole process of agricultural production. In 2012, all leading products produced at production centers for edible agricultural produces (vegetable, fruits, pork and chicken) throughout the city will be covered by technical standard for product safety and produced using safe production technology, qualification rate of food safety inspection conducted on edible agricultural produces produced in Beijing will reach 100% and qualification rate of agricultural produces distributed by agricultural produces distributors, cooperative organizations and leading agricultural enterprises in the city will reach 100%.

Intensify research into food quality and safety inspection technology in support of food quality supervision in production process. Conduct research on general and emergency technical standard for agricultural produces quality control, with focus on inspection techniques for food additives and inedible substances in food, accelerate construction of food quality supervision and inspection technology system, promote application of proprietary fast inspection or testing equipment and instruments, including fast food inspection vehicle, field food poison detection case, detector and relevant agents for detection of pathogenic microorganisms and toxic and hazardous chemical substances, in order to improve the food quality self-inspection capabilities of food processors.

Use modern technologies to strengthen monitoring and control over food transportation process. Carry out real-time monitoring of 200 frozen food transport vehicles entering the agricultural product markets and distribution centers in the city with respect to route, transportation temperature and status of vehicle doors in order to improve the capabilities to prevent and mitigate biological, chemical and radioactive contamination accidents in significant events.

Strengthen food safety monitoring in the distribution field. Build 20 food safety risk assessment and technical monitoring stations in the field of commodity circulation, promote application of RFID and other end-to-end monitoring electronic labeling technologies, set up food inspection rooms in 150 major supermarkets in the city and develop and make available fast food inspection equipment. Include poultry products, aquatic products, vegetables, fruits and high-priority prepackaged food currently sold at 500 major supermarkets and 21 major agricultural product markets into food safety tracking system ad realize end-to-end safety data traceability for high-risk food products from planting, breeding, slaughtering and packing to retail outlet.
(3) Agricultural technology program

Accelerate innovation and application of high-efficiency production technology for urban-type modern agriculture. Focus on making technological breakthrough in genetic selection of improved varieties of pigs, beef cattle and poultry, increase the high-quality livestock and poultry strain availability by over 20% and the coverage of high-quality livestock and poultry varieties to 90%. Introduce and selectively breed a large number of new varieties of grain, fruit and vegetable, domestic fungus, flower and marine products of fine quality, make technological breakthrough in seedling detoxification for strawberry and bulbous flowers, establish new-species test and demonstration plot networks at both the municipal and district levels, complete upgrading of corn and wheat varieties and renew 80% of major vegetable varieties. Promote extensive application of healthy and high-efficiency feedstuff production technology, as well as small-scale application of high-yield, high-quality, high-efficiency, ecologically preferable and safe planting and breeding methods. Further implement the Greater Grain Yield Program, raise the grain yield of per unit area and water manure utilization efficiency and reduce the disaster impact and grain production cost.

Accelerate innovation and application of technologies for post-production processing, preservation, package, storage, transport, processing of agricultural produces and food biological manufacturing, with focus on integration, innovation and application of technologies for post-production cold-chain processing, preservation and storage and transport of such agricultural produces as fruits and vegetables and flowers; introduce, study and demonstrate key technology, equipment and process for energy conservation, consumption reduction and recycling in primary processing and deep processing processes of distinctive, specialty and characteristic agricultural produces; extend the agricultural industry chain and develop food nutrition and food industry. Accelerate construction of agricultural product processing parks and logistics parks, establish agricultural products processing and distribution information management system, formulate technical standards and norms and build an agricultural commodity circulation system suitable for domestic and international trade.

Promote innovation and application of technology for protected agriculture and eco-cycle agriculture. Build three different production models of high-efficiency production, sightseeing recreation and ecological cycle, focus on developing and integrating innovative seedling raising technique, environmentally friendly cultivation techniques, soil fertilization and ecological rehab technique, comprehensive pest control technique, water manure nutrition regulation and control technique, intelligent temperature-humidity-air regulation technique, mechanized operation technique and other energy-saving and ecologically preferable protected agriculture practice, and establish a series of technical specifications. Speed up innovation and application of agricultural resource recycling technology and ecological rehab technology. Intensify research and application of key technologies for agricultural soil fertilization, cultivated field quality improvement, high-efficiency water conservation, countryside landscaping, soil ecological rehab, clean production and comprehensive organic waste utilization and non-point agricultural pollution control.

Accelerate innovation and application of technology for animal and plant disease prevention and
control. Establish biological safety zones and input monitoring system for breeding of poultry and livestock, establish disease integrated decontamination and control technology system for breeding and productive purposes to bring the major animal disease prevention and control system in the city more in line with the international practice. Establish agricultural and forest pest monitoring, early warning and comprehensive control system, develop and spread new pest control techniques. Foster biological preparation industry centering around animal vaccines and intensify efforts to develop vaccines for serious epidemics like hoof-and-mouth disease, bird flu and blue-ear disease.

Accelerate construction of modern agricultural industry technology system and agricultural technology transfer system. Promote development of advanced, suitable, energy-saving, environmentally friendly, safe and reliable agricultural mechanization technology. With product as the center, industry as the main thrust and existing technological R&D and promotion system as the medium, accelerate construction of modern agricultural industry technology system and innovation team, improve the capability of comprehensive innovation and application of agricultural technology; conduct participatory technical training to improve the scientific and cultural attainments and job skills of rural laborers and empower farmers to increase household income and productivity.

(4) Medical services and healthcare program

Complete construction of public health emergency response system. Build acute infectious disease early warning and monitoring system and improve the capabilities to identify infectious disease at the early stage. Promote application of first-aid information acquisition system and establish rapid information channel for pre-hospital first-aid and in-hospital treatment. Complete the intelligent citywide ambulance dispatching system.

Develop and spread technologies and products suitable for prevention and treatment of ten most common diseases including cardiovascular diseases and cerebrovascular diseases, conduct various technology transfer activities to promote commercialization of scientific payoffs.

Build and complete drug safety monitoring and emergency response system. Conduct application research for drug safety inspection, build drug information service platform and form a detection system that enables rapid screening and accurate quantification and qualitative determination.

In light of the top priorities of health system reform and the public requirements for basic medical services, develop suitable healthcare and diagnostic and treatment technology, spread advanced and suitable technology and equipment to improve the service level and quality of community healthcare stations.

(5) High-tech transportation program

Advance research and demonstration of communications-based train control (CBTC) technology and endeavor to form a homemade proprietary CBTC system. Accelerate construction of research, performance test and safety certification system for core vehicle technologies (traction and braking systems) for modern
transport vehicles (car and train), develop proprietary inspection techniques and formulate inspection and test standard and promote application of advanced automatic system and materials.

Build intelligent traffic control and emergency response systems, including rail traffic operation scheduling center system, comprehensive traffic monitoring system, road traffic forecasting system, urban traffic emergency response system, traffic video surveillance and analysis system, networked expressway operation and management system, road traffic flow detection and investigation system, traffic signal area control system, traffic organization optimization and simulation system, passenger traffic control and scheduling system and logistics and transportation information system.

Build user-friendly traffic information service systems, especially the comprehensive traffic information portal, real-time traffic information service and guidance system, dynamic parking guidance system, comprehensive interchange information guidance system (P+R) and car rental information service system.

Promote technological innovation in the fields of transportation infrastructure construction, maintenance, repair and emergency response. Develop advanced detection and testing instruments and equipment and develop rapid traffic emergency response technologies, with focus on research and application of nondestructive detection and emergency response technology for bridges, tunnels, railways and roadways, reinforcement and renovation technologies without interfering normal traffic, road noise reduction and prevention technology, new-type energy-saving and environmentally friendly materials and new-type construction methods.

(6) Energy conservation and new energy program

Promote application of habitable housing technology, new building energy conservation technology, green building technology, new-type wall body materials and energy-saving and environmentally preferable building material technology to improve the living environment. Promote application of energy-saving illumination technology and spread high-efficiency illumination products and LED road lamps across the city. Promote application of heat supply system energy conservation technology and accelerate energy-saving renovation of gas boilers and application of cogeneration across the city. Actively spread energy-saving air-conditioning technology in citywide public building renovation campaign. Promote application of building enclosing construction energy conservation technology and energy consumption monitoring technology. Intensify application and promotion of renewable energy in building industry, develop technology for application of solar energy, shallow geothermal and renewable new energy in building sector and increase the substitution rate of renewable energy. Spread the successful experience in construction of Olympic buildings and new technology and products used in Olympic works, summarize new technology and processes and formulate local standards for engineering construction and Beijing municipal engineering standards.

Further the application of industrial energy-saving technology. Accelerate energy-saving renovation
of five energy-consuming industries like petrochemical, with focus on promoting application of a number of energy-saving technologies such as residual heat and residual voltage power generation, electric motor system energy conservation, industrial boiler energy conservation and transformer renovation. Further improve real-time monitoring and management of heavy energy consumers and expand the coverage of monitoring and the varieties of energy being monitored. Endeavor to reduce the per CNY 10,000 industrial value-added energy consumption by 20% in 2012 based on the 2008 level and reduce the share of industrial energy consumption in citywide energy consumption to about 40%.

Develop and utilize biomass energy in rural areas. Demonstrate and spread biomass gas tar pollution reduction technology, low-temperature marsh gas fermentation technology, high-efficiency biomass fuel utilization technology and marsh gas tank sludge and liquid recycling technology, conduct test and demonstration of solar energy light-heat conversion system, biomass fuel heating technology and other energy substitution technologies, promote application of quantitative tank sludge and liquid fertilization technology and improve the comprehensive biomass resource development and utilization in rural areas. Conduct development and application of centralized biomass gasification and gas supply technology, household cooker fuel mix, formed biomass fuel and energy cost control technology, biomass fuel gas standardization technology and biomass solid formation plant and auxiliary cookers.

(7) New-energy-fueled vehicle demonstration project

Interface with the Ministry of Science and Technology’s “ten-city 1000-vehicle energy conservation and new-energy-fueled vehicle application program”. Conduct large-scale pilot demonstration of hybrid-powered and purely electric vehicles in public transit and urban sanitation and other public service sectors, expand the size of pilot demonstration of natural-gas-fueled vehicles and increase the number of clean-energy-fueled buses in operation to over 5000. Drive development of electric vehicle and components to complete the electric vehicle industry chain. Set up Beijing new energy vehicle industry alliance and accelerate construction of joint R&D center for new energy vehicles, new-energy passenger vehicle production center and new-energy commercial vehicle production center.

(8) Comprehensive air pollution control program

Intensify R&D and application of pollution control technology. Spread practical technologies like coal-fired boiler dedusting bag, demonstrate and spread volatile organic matter control technology in chemical, painting and printing industries where organic solvent consumption is huge; develop and spread emission control technology for such toxic gases as dioxin, develop construction site dust control technology and equipment and spread green construction practice. Continue spreading fume denitrification technology for used in gas-fired power plants, cement plants and coal-fired boiler rooms for central heating purpose in suburban districts and counties; demonstrate carbon dioxide sequestration and mercury removal technology for large coal-fired boilers.
Establish vehicle emission control dynamic management decision support system, formulate local fuel oil standard and technical roadmap for vehicle emission standard compliance suitable for implementation of the national vehicle emission standard V. Improve operating-mode-based vehicle emission detection technology and on-road detection and tele-metering system and establish on-road vehicle environmental labeling information system according to the test requirements of national V standard.

Further study the air pollutant composition, transformation and migration pattern in Beijing and neighboring provinces and cities, develop regional air quality data integrated forecasting and simulation technology and facilitate establishment of regional air pollution control mechanism.

Apply three-dimensional air pollution monitoring technology such as environmental satellite air pollutant concentration inversion technology, complete ground routing air quality monitoring network in Beijing, Tianjin and Hebei Province and establish regional spatial air pollution monitoring system. Develop and spread continuous online in-fume low-concentration pollutant and volatile organic matter monitoring technology. Establish air pollution source inventorying and revision technology and establish total pollutant emission management system. Formulate local standards and continuously improve the air quality of the capital city to address the difficult issues of general concern such as inhalable particles and ozone control.

(9) Water conservation and utilization program

Implement pilot demonstration projects of ecosystem monitoring, restoration and reconstruction in ecologically sensitive, expand soil loss and non-point pollution monitoring and control technology and measures for upstream of Miyun Reservoir and Huairou Reservoir, and establish monitoring system and information system. Spread practical technology and processes for construction of ecologically clean small watersheds. Spread scattered point source sewage treatment technology and ecological river-course water quality improvement technology, implement canal water quality improvement and water body functional restoration demonstration project and ecological river-course harnessing demonstration project. Establish aquatic environment monitoring and early warning system in downtown area of the city.

Research and demonstrate underground water resources safety assessment and pollution prevention and control technology and form pollution control systems for different types of underground water. Complete the underground water monitoring network, establish underground water quality and flow monitoring system to gradually realize visualized underground water management.

Spread new sewage treatment technologies such as membrane bioreactor technology and new treatment equipment, upgrade eight sewage treatment plants including Gaobeidian and Qinghe plants and ensure the main indicators of treated water meet the water quality criteria for Type IV surface water. Develop key technologies for sludge reduction, decontamination and recycling and build a safe sludge disposal technology system.

Establish an intelligent water resources optimized allocation system, conduct study of water resources bearing capacity and spatial allocation planning and study of strategic water resource reserve and
ecological service value of water. Conduct technical studies of optimized water resources allocation and promote precision management of water resources. Build urban storm-water resources management decision support system. Evaluate impact of climate change on water resources. Spread storm-water collection and quality improvement technology and study flood forecasting and regulation technology.

Establish and complete urban-rural safe water supply system. Strengthen control over corrosion product release in case of switchover of water sources. Develop and demonstrate water quality monitoring and early warning and optimized water source allocation technology, enrich the water safety control system and spread practical technology for water purification in rural areas.

Spread regenerated water utilization and conservation technology. Promote application of regenerated water irrigation in selected areas and complete the safety assessment system. Build countryside water conservation assessment system, spread water conservation technology suitable for local conditions and promote effective water conservation in rural areas. Develop technologies for comprehensive countryside sewage treatment and recycling, and spread wetland and land treatment technologies suitable for local conditions.

(10) Garbage reduction, decontamination and recycling program

Proactively spread organic kitchen waste microorganism recycling technology, build kitchen waste treatment plants at Dongcun, Gaoantun and Liulitun, implement kitchen waste recycling demonstration projects and basically realize kitchen waste recycling across the city.

Proactively spread the refuse burning-based power generation, heat utilization and pollution control technologies, as well as domestic refuse composting technology and anaerobic methane generation technology. Accelerate construction of incineration-based power plants at Asuwei and Nangong and eight comprehensive treatment plants at Dongcun, Asuwei and Fengtai.

Proactively spread landfill treatment technology, biological deodorization technology for garbage disposal facilities and full-cover below-film landfill gas collection and utilization technology and seepage treatment technology. Complete deodorization for 12 landfill facilities and proactively promote seepage treatment and pollution control.

Actively spread building rubbish recycling technology. Promote implementation of four pilot building rubbish recycling projects located at Nankou of Changqing District, Gaoantun, south and west of the city respectively to realize annual building rubbish treatment capacity of over 2.8 million tons and improve the building rubbish recycling performance.

Actively spread rotten rubbish pollution control, ecological rehab and land reutilization technologies based on refuse classification and air extraction and oxygen infusion processes; and exert greater control over unlicensed landfills throughout the city.

Intensify research and innovative application of fundamental and key technologies in collection, transport and processing of classified domestic refuse. Promote use of classified refuse collection trucks,
establish and complete the system for classified refuse collection, transportation and processing and implement pilot demonstration projects for application of kitchen refuse treatment process, household garbage pipelining system, intelligent garbage classification and handling management system and models.

(11) Comprehensive resource utilization program

Reutilize used polyester bottles by processing them into high-grade and high-end polyester products using world-leading clean polyester fragment production technology and solid-phase adhesiveness improvement technology.

Recycle and reutilize mine wastes. Treat coal slack and iron ore tailings using coal slack pulverization and sieving, coal slack-asphalt mix proportioning design and production technology and iron ore tailings recycling technology and coal-slate-mineral admixture preparation technology to realize comprehensive utilization of coal slack and iron ore tailings in asphalt mixture and cement concrete, drive development of relevant industries and protect ecological environment.

Revamp and reuse used tyres using tyre recapping and used tyre processing and remanufacturing technology to improve tyre utilization, reduce environmental pollution and provide new-type building materials.

Reutilize used paper. Relying upon papermaking companies like Beijing #7 Papermaking Factory, manufacture high-end reusable paper using treated water reutilization technology to realize production of reusable water using urban waste paper.

Implement pilot demonstration projects for application of used electronics and appliances recycling and pollution control technology and formulate corresponding technical specifications and standards.

(12) Urban safety and emergency response program

Continue building upon the citywide emergency response system centered on the municipal emergency response infrastructure, supported by emergency response stations in 18 counties and districts and 14 special-purpose emergency response units as well as mobile emergency response platforms. Spread the main emergency response system into every corner of the city and continuously improve emergency reporting network, forecasting and early warning and information dissemination systems. Continue building up the citywide emergency response backup platform. Establish and complete citywide risk assessment and management system and build risk management information system.

Develop key technologies and equipment in high-rise fire safety, firefighting and rescue and other aspects of urban safety.


(1) Accelerate construction of Zhongguancun National Innovation Model Park
Faithfully implement the instructions of State Council’s Permission to Support Construction of Zhongguancun National Innovation Model Park (Guohan (2009) No.28), formulate implementing rules for relevant policy measures and specific procedure and accelerate implementation of pilot projects of system and structural reform. Implement pilot demonstration projects to provide equity incentives to scientific research personnel and business managers for outstanding performance, including stock option, bonus system, technical contribution to registered capital and equity bonus. Deepen the pilot demonstration projects of technological financing, complete the relevant policy for non-listed companies in Zhongguancun to enter the stock exchange's proxy-based share transfer system, support development of industry-wide investment fund and equity investment fund. Allow a certain proportion of overhead expenses to be disbursed from budget for the national key scientific and technological development projects (programs) pursuant to the applicable provisions. Support new-type industry organizations and private enterprises to participate in national key scientific and technological development projects. Implement tax policy supporting innovation and business startup. Further implement the government procurement policy supporting corporate innovations. Make arrangements for preparation of development programs. Endeavor to bring innovative development of Zhongguancun to another level in 2012 and lay a foundation for building Zhongguancun into a world-class scientific and technological innovation center.

(2) Implement pilot equity incentive programs selected organizations affiliated to the municipal government

Implement pilot equity incentive programs at a number of pilot organizations selected from the scientific research institutions, colleges and universities and state-owned high-tech enterprises affiliated directly to the municipal government according to the instructions of State Council’s Permission to Support Construction of Zhongguancun National Innovation Model Park. Provide various equity incentives to scientific researchers and business managers with outstanding performance, including stock option, technical equity and equity reward. Encourage city-owned scientific research institutes and colleges and universities to start up various high-tech enterprises to speed up commercialization of scientific payoffs. Further motivate scientific research personnel by allocating portion of proceeds from scientific payoff commercialization to the holders of scientific payoffs.

(3) Further promote concentration of innovation elements in Zhongguancun (Haidian) Science Park

Facilitate concentration of elements of technology trade. Accelerate construction of China Technological Property Right Exchange, National Technology Trade Center and China Copyright Trade Center, draw together technical information dissemination platforms, scientific payoffs valuation organizations, technical consultancies, engineering consultancies and technology and product presentation organization to promote technology transfer and radiation and further commercialization of scientific payoffs.

Promote concentration of technological financing elements. Improve securities financing services
from SME debenture issuance facilitators, technological loan facilitators, credit service providers, bonding companies and listed financiers, draw together banks, securities companies, insurance, trust, leasing companies and investment institutions to build a technological financing system effectively serving the innovative undertakings in the city.

Promote concentration of technological intermediary agencies. Draw together management consultancies, planning and designing institutions, R&D service providers, entrepreneurship facilitators, IP agencies, law firms, patent agencies, industry associations to provide enabling business-critical factoring services for innovation activities.

(4) Greatly encourage enterprises to improve innovation capabilities

Build up the corporate technical innovation service platform. Call into full play the abundant public scientific and technological resources in the city including national engineering centers, national key labs, national engineering labs and large-sized instruments and equipment. And facilitate sharing of technological resources and conditions through market-oriented operation to form a business-friendly technical innovation service platform to help enterprises especially SMEs develop new products, readjust product mix, innovate management practice, expand market share and enhance competitiveness. In pillar industries, choose a group of enterprise-type scientific research institutes and technical centers of major companies as the technical innovation infrastructure and provide them with greater policy and financial support. Further implement Zhongguancun Open Lab Program to increase the number of open labs in Zhongguancun to 100 in 2012. Encourage labs and high-tech enterprises to align themselves with the national strategy and undertake national key scientific and technological development programs.

(5) Promote construction of large corporate R&D centers and national engineering research centers.

Support construction and development of R&D centers of major domestic and foreign-funded companies. Invite major SOEs to set up their R&D centers and technical centers in Beijing and attract multinationals and major enterprises outside Beijing to set up their R&D centers in the city.

Facilitate development of national engineering research centers and other research institutions. In such advantageous areas as software and information service, integrated circuit, mobile communication, computer and network, photo-electronic display, biomedicine, energy and environmental protection, encourage companies, universities and scientific research institutes to build state-level R&D institutions in order to further enhance the R&D and innovation capabilities of the capital city.

(6) Encourage scientific and technological personnel of scientific research institutions and universities to serve business community

Open the scientific research institutions wider to the business community. Further reform scientific research institutes and motivate scientific institutions and colleges and universities to promote
commercialization of scientific payoffs. Support R&D-oriented scientific institutions to work with corporate R&D centers to develop technologies, products and accelerate technology transfer to corporate sector and facilitate flow of scientific and technological personnel to business community. Encourage public-good scientific institutions to provide inspection, test and standard-setting services to enterprises. Governments at municipal and district levels will provide necessary support to construction of technological infrastructure of public-good scientific institutions.

Improve the service level of on-campus science parks and high-tech business incubators. Actively support and guide on-campus science parks and high-tech business incubators to become specialized and market-oriented, explore the incubation model of specialized incubation +entrepreneurship facilitator +angel investment, promote development of incubator alliance and service network and improve the specialized service capabilities of on-campus science parks in the fields of talent development, technology transfer, specialized consultancy and investment and financing. Explore and develop new mechanisms and models for service innovation of on-campus science parks. Build on-campus science parks and high-tech business incubators into centers for on-campus technical innovation, incubation of high-tech businesses, concentration and development of innovation-minded startups and demonstration of combination of industry, academia and research community.

(7) Facilitate development of industry and technical alliances

Support new industry organizational innovations especially industry alliances and technical alliances to build high-end innovation clusters. Regularize organizational management of industry and technical alliances and encourage them to intensify efforts of organizational coordination and resource integration. In the fields of electronics, energy conservation, environmental protection, biomedicine, new material, modern agriculture, photo-electromechanical integration, culture and creative, promote development of industry and technical alliances such as TD-SCDMA, Intelligent Grouping and Resource Sharing, SCDMA, digital TV, next-generation internet, China Alliance of Bio-Box Outsourcing (ABO). Encourage high-tech enterprises to establish standard-setting alliance, technical alliance and industry alliance with scientific institutions, colleges and universities, and support such alliances to undertake national key scientific and technological development projects, engage in R&D, promotion, application and IP protection of key and common technology, formulate and spread technical standards, establish technological resources sharing platform, design and implement industry-wide solutions, explore new models of school-business cooperation on development of innovation-minded talents, attract venture capital investment, build industry-specific technical information and standard information exchange platform and strengthen international cooperation and exchange on science and technology.

(8) Accelerate clustering of high-tech industries

Give full play to the gathering, radiating and driving role of Zhongguancun in leading development of
high-tech industries and supporting economic growth of the capital city and provide greater support to strategic high-tech industries like IT, biotech, new materials, new energy, environmental protection and energy conservation and aerospace. Promote clustering of industries and accelerate construction and development of the life science park, software park, environmental park, Yongfeng Industrial Park, Daxing Biomedicine Industry Park, electronic city science park and photo-electromechanical integration center to facilitate industrial restructuring and upgrading in the city. Further complete spatial planning, land utilization planning and other special-purpose planning, ensure planning and construction and environmental protection will be conducted to the highest standard and realize highly efficient land utilization. Continue advancing construction of transportation, energy, information and environmental infrastructure and supporting public service facilities. Promote commercialization and spread of scientific payoffs. Build Zhongguancun high-tech industrialization areas in districts and counties where conditions permit to spread Zhongguancun’s scientific payoffs in support of district-level industrial restructuring and upgrading so as to form characteristic high-tech industry clusters that are reasonably located, complement each other and grow side by side. The municipal government will provide policy support to such high-tech industrialization areas.

6. Measures

(1) Intensify efforts to introduce and foster high-level innovation-minded talents

Faithfully implement the central government’s instructions on implementation of high-level talent introduction program and the municipal government’s policy encouraging qualified foreign specialists to start business or work in the city, attract a group of strategic scientists, technology leaders, high-tech business leaders and high-tech innovation teams. Give full play to the role of Beijing Overseas Talents Center to provide one-stop services for incoming foreign specialists. Advance construction of foreign specialist innovation and startup center, returned Chinese student innovation park and incubator and further improve the business environment and living conditions for innovation-minded specialists.

Faithfully implement the municipal government’s instructions on further fostering veteran specialists, formulate and implement innovation-minded scientific manpower development action plan, focus on fostering multidisciplinary talents armed with technological innovation capabilities and management or technical capabilities and endeavor to raise the innovation awareness and capabilities of scientific and technological manpower. Advance development of major universities and important disciplines in the city and foster high-level innovation-minded talents through key scientific and technological development projects, key disciplines and labs, international exchange and cooperation programs. Establish and complete profit distribution system and incentive system encouraging innovation and entrepreneurship and provide greater incentives for key jobs and key personnel by increasing governmental reward and making available equity arrangements and annual pay system. Encourage and support university graduates to participate in technological innovation or start their own business, attract outstanding university graduates to national and municipal scientific and technological development programs and encourage university graduates to start
their businesses in rural areas.

(2) Intensify government investment

Establish government investment integration mechanism. In the next four years, the municipal government's investment in innovation and industrialization will be no less than CNY 50 billion. Coordinate and make full use of scientific and technological resources, realize collaborative innovation, drive enterprises and the general public to invest in innovation by intensifying government investment to support a number of strategic areas, key technologies and key industrialization projects that enjoy solid infrastructure and advantages and benefit social and economic development of the capital city, in addition to helping a group of enterprises grow stronger and bigger.

(3) Promote innovation of technological financing system

Establish an interconnected multilevel capital market system. Support Zhongguancun-based enterprises to pursue IPO both at home and abroad, further implement the pilot demonstration projects of proxy-based share transfer for Zhongguancun-based companies and continue promoting collective debenture issuance of Zhongguancun enterprises. Choose qualified commercial banks to set up branch banks in Zhongguancun to serve small and medium-sized high-tech enterprises by developing new financing channels, organizational forms and financial products and providing credit loan, IP-pledged loan and small-value secured loan. Support local financial institutions to set up financial leasing companies for high-tech enterprises. Build technological financing service platform and accelerate construction of a technological financing service system that covers different stages of business development and deals with small business loan, financial guarantee, venture capital investment, industry investment and M&A and reorganization. Establish technology insurance system and encourage insurance companies to provide insurance services to high-tech enterprises.

(4) Strengthen government procurement policy

Carry out government procurement by means of first purchase, ordering, first key technological equipment test and demonstration project and commercialization to support corporate R&D activities. The scope of government procurement covers government departments, public institutions and enterprises that purchase using fiscal funds at the municipal and district levels, owners, contractors and managers of projects solely or partially funded by fiscal funds at the municipal and district-level as well as Zhongguancun enterprises, colleges and universities and scientific institutions that develop and provide innovation products. The innovation products covered by government procurement extend beyond government office supplies to include construction projects in public utilities, construction, energy and water conservation, environmental protection, resource recycling, traffic management, public safety, medical services, technical transformation, scientific research and development and engineering maintenance that are funded solely or partially by
fiscal funds at the municipal and district level.

(5) Create an enabling environment for innovation and entrepreneurship

In conjunction of transformation of governmental functions and restructuring of government administration, actively reform administrative approval system, streamline administrative approval procedure and shorten the administrative approval duration in order to create a more business-friendly and relaxed environment for development of innovation-oriented enterprises. Create legal and policy environment and enact a series of public policies encouraging and promoting R&D and application of scientific payoffs. Gradually refine a normative and hierarchical science and technology policy system suitable for local conditions. Explore and build a public administration mechanism in which enterprises, associations and government interact beneficially with each other as well as an interdepartmental cooperation and coordination mechanism. Call into full play the important role of various science research associations and societies in promoting innovation, impart scientific knowledge, liaising with and serving scientific research personnel to continuously improve the level of public service. Encourage citizens to engage in innovation, invention and creation activities and create stimulating environment for technical innovation.

(6) Implement intellectual property strategy

Faithfully implement the Outline of National Intellectual Property Strategy, encourage and guide enterprises to apply for and obtain patents both at home and abroad, support enterprises to improve technical innovation capabilities and market expansion capabilities through IP strategy, and assist major companies in building patent pool and the industry and technical alliances in establishing patent cluster. Deepen development and operation of intellectual property rights and guide technology transfer agencies to develop and commercialize exploitable patented technology through market-oriented operational mechanism in order to promote industrialization of patents. Provide greater protection for intellectual property, improve the municipal IP protection policies and legal framework, strengthen law enforcement coordination, improve law enforcement capabilities and endeavor to build Beijing into a paradise of intellectual property.

(7) Strengthen leadership

Set up a task force composing officials from relevant government departments at the municipal level, which will operate under the leadership of leading officials of the Municipal Party Committee and Municipal Government to implement the overall scientific and technological development plan of the Municipal Party Committee and Municipal Government, address significant strategic issues surrounding High-tech Beijing Action Plan and facilitate implementation of High-tech Beijing Action Plan through overall planning and all-round consideration. The task force will run a general office where Beijing Municipal Commission of Science and Technology will take charge of everyday activities, establish joint conference system, strengthen coordination and overall planning of scientific and technological practice, reasonably allocate resources,
make arrangements for jointly resolving significant scientific and technological issues encountered in economic and social development of the city. All government departments at municipal, district and county levels are required to attach great importance to implementation of High-tech Beijing Action Plan, set up task force, includes the implementation of the plan on the top priority agenda of respective district and department, break down the mission into sublevel assignments and include the results of assignments in performance appraisal scheme.