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[Subject Category] Technology Education/Technology	[Publishing agency] Office of the Beijing Municipal People's Government
[Date of Implementation] ----	[Date of writing] 2020-06-18
[Send text number] Beijing government office issued [2020] No. 19	[Abolition Date] ----
[Release Date] 2020-06-30	[Effectiveness] effective

Notice of the General Office of Beijing Municipal People's Government on Printing and Distributing the "Beijing Blockchain Innovation Development Action Plan (2020-2022)"

Font Size: Tai   Zhong   Small

Related Interpretation

"Beijing Blockchain Innovation and Development Action Plan (2020-2022)" issued Beijing will initially build four "highlands"

Jingzhengbanfa [2020] No. 19

The people's governments of all districts, the municipal government committees, offices and bureaus, and the municipal agencies:

The "Beijing Blockchain Innovation Development Action Plan (2020-2022)" has been approved by the municipal government and is now issued to you. Please implement it carefully.

Beijing Municipal People's Government Office

June 18, 2020

Beijing Blockchain Innovation Development Action Plan

(2020-2022)

In order to thoroughly implement the spirit of General Secretary Jin Ping's important instructions on the development of blockchain technology, in accordance with the deployment of the Party Central Committee and the State Council, to accelerate the development of blockchain technology and industrial innovation, this action plan is specially formulated.

1. General requirements

(1) Guiding ideology

Guided by Xi Jinping's socialist ideology with Chinese characteristics in the new era, fully implement the spirit of the 19th National Congress of the Communist Party of China and the

Second, Third, and Fourth Plenary Sessions of the 19th CPC Central Committee, and thoroughly implement the spirit of General Secretary Xi Jinping's important speech to Beijing Positioning, taking blockchain as an important breakthrough in independent innovation of core technology, comprehensively promoting blockchain theoretical innovation, technological breakthroughs, application demonstration and talent cultivation, creating new economic growth points, and accelerating the construction of national science and technology innovation centers to promote high economic growth Provide strong support for quality development.

(2) Basic principles

Combination of original leadership and demand-driven. Strengthen blockchain theoretical research and independent and controllable technological innovation, promote the deployment of application scenarios with large social impact and obvious expected effects, and further open up the innovation chain, application chain and value chain.

The combination of system layout and dynamic adjustment. The system layout is based on the basic theory of blockchain, key technologies, industrial development, and supporting factors, and the development strategy, work focus and planning arrangements are adjusted in due course.

Combining immediate investment with continuous support. Grasp the development rules and stage requirements of the blockchain in a coordinated manner, establish a sound and differentiated financial policy mechanism based on the combination of length and shortcomings, and create a good ecology for the innovation and development of the blockchain.

(3) Main objectives

By 2022, Beijing will initially be built into an influential blockchain technology innovation highland, application demonstration highland, industrial development highland, and innovative talent highland, taking the lead in forming the "Beijing Plan" for blockchain-enabled economic and social development and establishing a district The new system of integration and interaction of blockchain technology innovation and industrial development continues to inject new momentum and vitality into the high-quality development of Beijing's economy.

2. Key tasks

(1) Innovation and leadership, creating a blockchain theory and technology platform

1. Strengthen basic research of blockchain and key core technology research. Focus on the frontier basic theory of blockchain, support research in key areas such as cryptography, high-performance computing, trusted chips, and wisdom science, and break through the theoretical issues of blockchain commonality. Focusing on blockchain high performance, security, privacy protection, scalability, data authenticity, etc., research network models, consensus mechanisms, distributed storage, zero-knowledge proofs, secure multi-party computing, cross-chain protocols, smart contracts, chains Technologies such as collaboration and regulatory technology on the chain form a mature, complete and sustainable iterative technology architecture system. (Leading unit: Municipal Science and Technology Commission, supporting unit: Zhongguancun Management Committee, Haidian District Government)

2. Build the underlying open source technology platform and ecology of the blockchain. Encourage scientific research institutions, colleges and universities to build on the key core technological achievements of the blockchain, build an independent and controllable underlying open source technology platform, explore the development of trusted chips, smart servers and operating systems based on the blockchain, and build an internationally influential Blockchain open source community, build an innovative and active blockchain open source ecosystem. (Leading unit: Municipal Science and Technology Commission, Haidian District Government, supporting unit: Municipal Economic and Information Bureau)

3. Create a trusted information infrastructure system based on blockchain. Improve the two-tier directory blockchain system in the urban area, develop common application infrastructure, form a trusted blockchain service support platform, and initially build a unified digital identity platform, unified government data sharing platform, unified social credit platform, and unified cross-chain interaction The platform provides a common and secure blockchain basic support capability, reducing technology use costs and application development threshold. Combined with Beijing government affairs cloud, big data platform and other information facilities, a credible information infrastructure system supporting the development of digital economy and digital society is gradually formed. (Leading unit: Municipal Science and Technology Commission, Municipal Economic and Information Bureau)

4. Promote the construction of blockchain standard system. Encourage scientific research institutions, colleges and universities to initiate or participate in the preparation and revision of blockchain international, national and industry standards, accelerate the development of basic, key and security standards for core technologies, and enhance the right to speak and rule internationally. (Leading unit: Municipal Science and Technology Commission, Haidian District Government, supporting units: Municipal Economic and Information Bureau, Zhongguancun Management Committee)

5. Build a world-class new blockchain R&D institution. Integrate the strength of scientific research institutions, colleges and universities, and establish the Beijing Blockchain Research Institute to incorporate the city's new R&D institution system; accelerate the achievement of transformative and disruptive breakthroughs in blockchain theory, methods, tools, systems, and output A batch of original theoretical achievements and key technologies with international leading level. (Leading unit: Municipal Science and Technology Commission, supporting unit: Haidian District Government)

(2) Driven by demand, the construction of a batch of multi-domain application scenarios

6. Promote "data sharing, business collaboration" in government services. Promote the construction of a common infrastructure for government services based on blockchain, help credible sharing of government data across departments and regions, and improve the efficiency of business collaboration. We will be the first to focus on real estate registration, Beijing-Tianjin-Hebei "one network connection", unified electronic bills in the field of finance and taxation, etc. to carry out demonstration applications, reduce links, reduce materials, reduce movement, reduce time limits, and enhance the sense of acquisition of enterprises and the public. (Leading unit: Municipal Service Bureau, cooperating unit: Municipal Finance Bureau, Beijing Municipal Taxation Bureau, etc.)

7. To promote "multi-party mutual trust, cost reduction and efficiency increase" in financial services. Focusing on the pain points of complicated traditional financial service information verification, high cost, long process, etc., it promotes a number of application scenarios in the fields of supply chain finance, asset securitization, cross-border payment, trade financing, and intelligent supervision, and supports related projects to declare financial technology. Pilot innovation (supervision sandbox) to promote mutual trust and efficient coordination among governments, markets, and institutions to improve the effectiveness of financial services. (Leading unit: Municipal Financial Supervision Bureau, supporting unit: Zhongguancun Management Committee, etc.)

8. Accelerate the "trustworthy collection and trusted sharing" of credit information. Based on the city's credit information platform, the use of blockchain technology to achieve social credit supervision and provide public credit services. Innovate the collection and integration of government and social credit data, information sharing, monitoring and evaluation, and independent application, build a social credit system of co-building, co-governance, and sharing, and form a blockchain-based credit application innovation demonstration in the fields of healthcare, housekeeping, and recruitment mode. (Leading unit: Municipal Economic and Information Bureau)

9. Empower city management with "trusted interconnection and fine governance". Explore the application of blockchain technology in the construction of urban transportation, power, water conservancy, information and other infrastructure, mobilize active participation of multiple parties in public green carbon demonstration of public travel, credible monitoring of urban water resources, and promote the availability of urban data Trust, finance, communication and sharing promote the efficient management and effective allocation of urban resources, and enhance the level of digitization, intelligence and refinement of urban management. (Leading unit: Municipal Urban Management Committee, Municipal Transportation Committee, Municipal Water Affairs Bureau)

10. Promote public safety "to be traceable throughout the process, traceable process". Facing key management objects such as food, hazardous waste, emergency equipment materials, rescue funds, etc., promote the application of blockchain technology in scenarios such as administrative law enforcement, data storage and traceability management, strengthen security risk analysis and assessment and early warning capabilities, and enhance government departments The transparency and convenience of certificate storage, supervision, law enforcement, and accountability increase the level of public safety management in a digital society. (Leading unit: Municipal Market Supervision Bureau, Municipal Agriculture and Rural Bureau, Municipal Ecological Environment Bureau, Municipal Emergency Bureau, Municipal Public Security Bureau)

11. Help health "credible sharing, traceability of certificates". Focusing on the needs of data safety, process reliability, and regulatory compliance for the construction of a medical and health management system, we explored the creation of blockchain technology application scenarios; based on the characteristics of blockchain technology data sharing, information transparency, intelligence, and trust, we explored its Application in vaccine management, medical waste management and other business scenarios. (Leading unit: Municipal Health Commission)

12. Promote "efficient and transparent, traceable process" of e-commerce transactions. Promote the application of blockchain technology in the field of commercial circulation, develop

business scenarios for online and offline integration of digital trade, cross-border trade, online retail, etc., improve the credibility of transaction subjects and transaction content, and improve the transparency and traceability of the transaction process Sex and safety, improve transaction efficiency, and help optimize the new supply of consumption. (Leading unit: Municipal Commerce Bureau, Haidian District Government, etc.)

(3) Aggregate development, nurture the integration and linkage of the blockchain industry

13. Cultivate blockchain innovative enterprise clusters. Focusing on building a blockchain integrated industrial chain system, creating an innovative leading enterprise with global influence, cultivating a group of unicorn enterprises and high-growth characteristic enterprises, providing application scenario support for small and medium-sized innovative enterprises, and promoting the industrial chain Downstream collaborative development. Actively connect with relevant state departments and central enterprises, and promote its affiliated blockchain R&D institutions to land in Beijing. (Leading unit: Haidian District Government, Zhongguancun Management Committee, Municipal Science and Technology Commission, supporting units: Municipal Economic and Information Technology Bureau, Chaoyang District Government, Tongzhou District Government)

14. Build a blockchain innovation and entrepreneurship service platform. Support scientific research institutions, colleges and universities to jointly build joint laboratories, technology transfer centers and other blockchain collaborative innovation platforms, and promote the transformation of scientific and technological achievements by means of achievement transfer, license use, and price share acquisition. Support the construction of blockchain innovation and entrepreneurship incubation carriers, hold technical and industrial innovation competitions, and stimulate innovation and entrepreneurship. (Leading unit: Haidian District Government, Zhongguancun Management Committee, supporting units: Municipal Science and Technology Commission, Municipal Economic and Information Bureau, Chaoyang District Government, Tongzhou District Government)

15. Build a blockchain industry innovation development base. Focus on building unique and advantageous blockchain industry innovation development bases in Haidian District, Chaoyang District, Tongzhou District, etc., introduce a group of blockchain enterprises with strong innovation capabilities and great development potential, improve and complete the supporting service system, and work in the office Housing rent subsidies, research and development funding subsidies, and talent introduction are actively supported. (Leading unit: Municipal Science and Technology Commission, supporting units: Municipal Economic and Information Bureau, Zhongguancun Management Committee, Haidian District Government, Chaoyang District Government, Tongzhou District Government)

16. Set up a blockchain industry investment fund. Set up a special sub-fund for blockchain industry investment under the Municipal Science and Technology Innovation Fund to coordinate government investment and social capital, and actively support blockchain innovation projects to become bigger and stronger. Establish a service mechanism for blockchain companies to connect with the capital market, and encourage advantageous companies to go public for financing. (Leading unit: Municipal Science and Technology Commission, Haidian District Government, cooperating units: Municipal Economic and Information Bureau, Municipal Financial Supervision

Bureau, Zhongguancun Management Committee, Chaoyang District Government, Tongzhou District Government)

17. Promote the construction of blockchain industry alliance. Promote the construction of the blockchain industry alliance around technology, application and industrial development, attracting multiple parties such as government, industry, learning, research, capital, and use to participate in blockchain technology, achievements, applications, standards, training, evaluation, etc. Exchange and cooperation to build an industrial ecosystem of collaborative innovation and mutual benefit. (Leading unit: Zhongguancun Management Committee, Haidian District Government, supporting units: Municipal Science and Technology Commission, Chaoyang District Government, Tongzhou District Government)

(4) Factor guarantee, build a leading blockchain talent echelon

18. Introduce the world's top professionals in blockchain. Implement special talent introduction actions and strongly support the introduction of talents and innovation and entrepreneurship teams at home and abroad who are in urgent need of key core technology areas of the blockchain. In the talent programs of Gaoju Engineering and Beijing Scholars, we will increase the introduction, cultivation and support of blockchain talents to provide convenient conditions for qualified talents. (Leading unit: Municipal Talent Bureau, supporting unit: Zhongguancun Management Committee)

19. Cultivate high-level innovative talents in the blockchain. Give full play to the academic and professional advantages of colleges and universities, encourage them to strengthen collaborative cooperation with scientific research institutions and enterprises, rely on scientific research projects and laboratory construction, promote interdisciplinary integration, improve high-level talent training programs, carry out postgraduate education reform pilots, and promote blockchain Scientific research innovation and talent cultivation are organically integrated to train a group of high-level compound innovative talents. (Leading unit: Municipal Education Commission)

20. Establish a blockchain talent training system. Encourage blockchain companies to establish corporate universities and accelerate the training of professional technical talents such as blockchain system architects, development engineers, and test engineers. In the city's professional and technical personnel knowledge renewal project, high-tech industrial skills improvement training, focus on blockchain-related training. Incorporate blockchain training into the cadre education and training system and build a high-quality professional cadre team. (Leading unit: Municipal Party Committee Organization Department, Municipal Human Resources and Social Security Bureau, supporting unit: Municipal Science and Technology Commission)

3. Organization and implementation

(1) Strengthen organizational leadership

Set up a blockchain work promotion group led by city leaders to coordinate and solve major problems in blockchain technology and industrial development. The work promotion group has an office and a special work class is set up to promote the implementation of the action plan. Integrate expert resources in the field, establish a "1+1" working mechanism of "committees and bureaus +

expert groups", and carry out technical consultation, program demonstration, and process guidance. (Leading unit: Municipal Science and Technology Commission)

(2) Strengthen financial support

Focus on frontier basic theories, independent and controllable core technologies and other original innovations and underlying open source technology platforms, and trusted information infrastructure construction, focusing on blockchain application demonstration research, innovation incubation platform construction, professional talent introduction and talent training, training, urban area The two levels of finance increased their support, insisted on combining long-term and short-term investment, and encouraged innovative entities to actively participate in the construction of industrial bases, providing strong guarantee for blockchain technology and industrial development. (Leading unit: Municipal Finance Bureau, Municipal Science and Technology Commission, supporting units: Municipal Economic and Information Bureau, Zhongguancun Management Committee, Chaoyang District Government, Haidian District Government, Tongzhou District Government)

(3) Improve the supervision mechanism

In accordance with the principle of inclusive and prudent supervision, explore and formulate relevant policies and regulations of blockchain technology and application management, and study and improve the blockchain risk management mechanism. Strengthen the supervision of token issuance and financing activities, protect investors' rights and interests, and prevent systemic risks. Strengthen data supervision in the development and application of blockchain technology to protect personal and commercial information in accordance with law. (Leading unit: Municipal Science and Technology Commission, supporting unit: Municipal Judicial Bureau)

(4) Create a good atmosphere

Strengthen the promotion of blockchain application demonstration projects and popularize the basic knowledge of blockchain. Vigorously promote the advanced model in the field of blockchain, and create a good public opinion environment for blockchain technology and industrial development. (Leading unit: Municipal Science and Technology Commission, Haidian District Government)

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Government website identification code: 1100000088 Beijing Public Network Security 110105000722 Beijing ICP No. 05060933