



湖南省工业和信息化厅
Industry and Information Technology Department of Hunan Province
湖南省国防科技工业局

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Notice on the issuance of the "Three-Year Action Plan for the Development of Artificial Intelligence Industry in Hunan Province (2019-2021)"

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Municipal and state industry and information technology authorities, relevant parks, and relevant enterprises:
The "Three-Year Action Plan for the Development of Artificial Intelligence Industry in Hunan Province (2019-2021)" is hereby issued to you, please organize and implement it carefully in light of actual conditions.

Attachment: Three-year action plan for the development of artificial intelligence industry in Hunan Province (2019-2021).

Hunan Provincial Department of Industry and Information Technology
February 28, 2019

Annex

Three-year action plan for the development of artificial intelligence industry in Hunan Province (2019-2021).

Artificial intelligence is a strategic technology that leads the future and is an important driving force for a new round of scientific and technological revolution and industrial transformation. In order to implement the State Council's "New Generation Artificial Intelligence Development Plan" and the Ministry of Industry and Information Technology's "Three-Year Action Plan for Promoting the Development of the New Generation of Artificial Intelligence Industry (2018-2020)", seize historical opportunities, promote the development of artificial intelligence industry in our province, promote the

deep integration of artificial intelligence and the real economy, help build a strong manufacturing province and a strong network province, and empower the high-quality development of the province's economy, this action plan is formulated.

1. General requirements

(1) Guiding ideology

Fully implement the spirit of the 19th National Congress of the Communist Party of China, guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, promote the integration of artificial intelligence and the real economy as the main line, and take key core technologies as the main direction, actively develop artificial intelligence innovative products and services, promote the industrialization of artificial intelligence technology, promote the in-depth application of artificial intelligence, and strive to cultivate artificial intelligence enterprises and industries with major leading and leading roles, so as to develop the artificial intelligence industry into a supply-side structural reform and build an emerging advantageous industrial chain in Hunan , building a high-quality modern economic system and promoting social progress is an important supporting force.

(2) Development principles

Innovation leads. Grasp the development trend of artificial intelligence technology, adhere to the forward-looking layout, optimize the allocation of innovation resources, enhance original innovation capabilities, and strive to make breakthroughs in several core areas to form an artificial intelligence innovation system with Hunan characteristics.

Key breakthroughs. Based on the industrial foundation, concentrate advantageous forces and innovation resources, support the research and development of artificial intelligence products in key areas, accelerate industrialization and application deployment, and drive the overall improvement of the industry.

Application demonstration. With "artificial intelligence +" as the starting point, we will further promote the integration of artificial intelligence and the real economy, strengthen the application and radiation guidance in key areas, implement scenario application demonstration projects, promote development through application, and promote the cultivation of new technologies, new formats and new models.

Open development. Optimize the development environment, advocate open source sharing, strengthen open cooperation, improve coordinated development mechanisms, and promote the open sharing of common technologies, resources, and services of artificial intelligence. Promote the two-way transformation and application of military and civilian scientific and technological achievements, and build a new pattern of deep integration between military and civilians. Strengthen safety and security capabilities and promote the healthy and orderly development of the industry.

2. Action objectives

By 2021, the scale of the province's core artificial intelligence industry will reach 10 billion yuan, driving the scale of related industries to reach 100 billion yuan, the overall level of the artificial intelligence industry will rank among the top in the country, and the artificial intelligence industry chain will

continue to improve. The basic support has continued to strengthen, and an artificial intelligence innovation leading area, artificial intelligence industry agglomeration area and artificial intelligence application demonstration area with important domestic influence have been initially formed.

-- Innovation ability has been significantly improved. About 10 international and domestic first-class artificial intelligence basic research and open innovation platforms have been built, a number of core invention patents, technical standards and specifications have been formed, and an open and collaborative artificial intelligence science and technology innovation system has been initially established.

-- Large-scale development of key products. Breakthroughs have been made in the intelligent networked vehicle industry, intelligent rail transit products such as smart rail trains have accelerated industrialization, the global leading edge of intelligent construction machinery products has been further consolidated, the intelligent robot industry chain has been continuously improved, and the level of intelligent information terminals, smart homes and other products has been greatly improved.

-- The demonstration application has achieved remarkable results. Intelligent manufacturing has deepened its development, with the deep integration of construction machinery, rail transit, new materials, non-ferrous metallurgy, electronic information, new energy and other industries with intelligent technology, and the cultivation of intelligent manufacturing development ecosystem. "Artificial intelligence +" continues to expand, and a number of integrated application projects are progressing smoothly.

-- The support foundation continues to strengthen. Build a number of basic support platforms such as supercomputing services, big data infrastructure, open source software and hardware, intelligent product testing, and industrial cloud platforms, form a certain scale of high-quality annotation data resource libraries and standard test datasets, initially establish artificial intelligence standard systems, test and evaluation systems, and security assurance system frameworks, accelerate the construction of intelligent network infrastructure systems, and improve the development environment of the artificial intelligence industry.

3. Main tasks

(1) Key technological innovation plans

1. Common key technology research. Facing the layout of key industries in Hunan, relying on universities such as National University of Defense Science and Technology, Central South University, Hunan University and various scientific research platforms to break through the key technologies of a new generation of artificial intelligence. With algorithms as the core and data and hardware as the basis, comprehensively improve the capabilities of perception recognition, knowledge reasoning, intelligent computing, cognitive understanding, collaborative control and operation, human-computer interaction, etc., to form an open, compatible, stable and mature technical system. Focus on the research and development of key technologies such as intelligent data labeling and labeling, deep learning model frameworks and algorithms, knowledge learning and computing engines, natural language processing

and computer vision, complex scene perception and cognition, cross-media analysis and reasoning, autonomous and precise perception and control, industrial interconnection data driving and knowledge guidance, and software-hardware integration human-machine collaboration for vertical subdivisions such as intelligent manufacturing, intelligent driving, smart education, and smart medical care.

2. Research and development of core components and systems. Give full play to Hunan's supercomputers, special sensors, CPUs, and GPUs and other high-end general chips, independent and controllable operating systems and other characteristic advantages, according to the four levels of intelligent sensing, intelligent chips, intelligent operating systems and intelligent ecosystems. Support the intelligent and miniaturization research of laser gyroscopes, inertial guidance systems, radar, visible light, ultrasound, infrared and other sensors, and develop the intelligent sensing industry. breakthroughs in the design, packaging, testing, and manufacturing technology of artificial intelligence special chips, and the development of neural network processor chips, image processing chips, speech processing chips, etc., to promote the development of high-end intelligent chips; Give full play to the advantages of Hunan's information security industry to create intelligent industrial operating systems, intelligent driving operating systems and intelligent robot operating systems based on independent software and hardware; Support the development of an open source and open foundation platform for artificial intelligence that supports a variety of heterogeneous hardware and algorithm software, and establish an artificial intelligence ecosystem that encourages innovation, organic integration, open compatibility, and rapid application.

(2) Intelligent product innovation plan

1. Intelligent carriers. Give full play to Hunan's first-mover advantage in key areas of intelligent transportation, rely on platforms such as the National Intelligent Connected Vehicle (Changsha) Test Zone and the National Advanced Rail Transit Equipment Innovation Center to accelerate the research and development of key technologies such as on-board multi-dimensional perception and information fusion, intelligent integrated power modules and components, high-level autonomous driving, deterministic real-time Ethernet train communication, health management and life prediction, and develop intelligent products such as intelligent rail transit, smart buses, intelligent heavy trucks, and unmanned distribution vehicles and explore demonstration applications and business models. Strengthen the transformation ability of innovative resources in Hunan universities, break through key technologies of unmanned products such as intelligent obstacle avoidance, automatic cruise, data transmission, link control, monitoring and management, and collaborative control systems, and develop military drones, industrial drones, consumer drones, and unmanned ships (boats). Support Xiangjiang Group, CRRC Zhuzhou Institute, CRRC Zhuzhou Machinery, CRRC Times Electric, National University of Defense Science and Technology Unmanned Systems Research Institute, China Aviation Development Power Machinery Research Institute, Yaguang Technology (Sunbird), Hunan Xiangchuan Heavy Industry, Cornerstone Information, Kunpeng Zhihui and other research and development of independent intelligent delivery system technology products.

2. Intelligent construction machinery. Focusing on cultivating world-class industrial clusters, we actively develop high-precision sensors and intelligent control software and hardware systems such as integrated millimeter-wave radar, lidar, remote fault monitoring and maintenance required by the construction machinery industry, and break through complex environmental perception, unmanned driving control, collaborative control of multiple types of operating equipment, high-precision positioning and attitude control, intelligent scheduling, remote operation and maintenance, intelligent mining and transportation and other technologies for specific application scenarios, and develop intelligent unmanned excavators, aerial work machinery, sanitation operation machinery, Mining dump trucks, tunnel construction equipment, key components and other products. Support Zoomlion, Sany Heavy Industry, CRRC Times Electric, Railway Construction Heavy Industry, Sunward Intelligence, etc. to implement the "Product 4.0 Project".

3. Intelligent robots. Promote the deep integration of artificial intelligence, Internet, Internet of Things and other technologies and robotics in industrial manufacturing, people's livelihood services and special industries. Promote the application of industrial robots in Hunan's advantageous industries such as construction machinery, automobiles, new materials, non-ferrous metallurgy, electronic information, aerospace, food and medicine, and civil explosives and fireworks. Improve the technical level of service robots in intelligent perception, intelligent analysis and intelligent decision-making. Carry out research on special robots, and promote their application and industrialization in reconnaissance operations, emergency rescue, fire inspection, special testing and other fields. Increase the research and development of key components such as high-performance servo motors, drives, reducers, controllers, sensors and end effectors. Support the Robot Research Center of the National University of Defense Science and Technology, Zhongnan Intelligence, Lens Intelligence, Hunan Super Energy, Yuhuan CNC, Chutian Technology, Huashu Hi-Tech, etc. to increase upstream and downstream R&D cooperation in the industrial chain to enhance product competitiveness.

4. Intelligent terminal products. Promote the close integration of intelligent terminals with information consumption and big data, accelerate the application of key technologies such as human-computer interaction, biometric recognition, computer vision, virtual reality, augmented reality, and Beidou navigation in the field of information terminal products, and develop a new generation of smart phones, vehicle intelligent terminals, financial intelligent terminals, intelligent security monitoring terminals, intelligent logistics equipment, intelligent wearable devices and other technologies and products. Promote the deep integration of intelligent terminal technology and products with mobile games, video applications, location services, social networks and other fields, and innovate business models. Support the Great Wall of China, Lens Technology, ZTE Intelligence, Flextronics, Xiangyou Technology, Changsha Haige, Sannuo Biotech, etc. to increase the research and development and industrialization of related intelligent terminal software and hardware technologies and products.

5. Smart home products. In view of the wide application of image recognition, speech recognition, natural language processing, intelligent search, automatic control and other technologies in home

products, build a home appliance information platform through cloud platform and big data to promote the intelligent upgrading of traditional home appliances. Focusing on home safety, health care, smart entertainment, environmental monitoring, energy management and other fields, realize the interconnection of smart products, and develop smart home appliances, smart lighting, 4K TVs, smart furniture and other products. Promote the organic integration of smart security, smart home, smart community, smart city, etc. Support Weisheng Group, Guoke Microelectronics, Anker Innovation, Wisdom Eye (Hunan), Zero One Smart Home, etc. to increase the research and development of technology products and innovate service models.

Column 1 : Innovation Capacity Improvement Project

Support the research and development of core key technologies such as intelligent data labeling and labeling and algorithms for vertical subdivisions such as intelligent manufacturing and intelligent driving; Focus on supporting the research and development and industrialization of intelligent terminal products such as intelligent transportation, intelligent construction machinery, and intelligent robots; Support the construction of intelligent sensing, smart chips, intelligent operating systems and intelligent ecosystems.

By 2021, 20 key supported artificial intelligence technology, product research and development and industrialization engineering projects will be formed.

(3) Innovative application plans in key areas

1. Intelligent manufacturing. Focusing on 20 industrial emerging advantageous industrial chains, facing the needs of intelligent upgrading in the manufacturing industry, relying on the industrial Internet platform, accelerate the research and application of industrial artificial intelligence service platform application technology, production equipment intelligent IoT technology, new production and manufacturing models, and explore intelligent manufacturing execution systems based on machine perception and cognition, so as to realize the networking of production equipment, the visualization of production data, the transparency of the production process, and the unmanned production site. Increase pilot demonstrations of intelligent manufacturing, build a number of intelligent production lines, smart factories, and unmanned factories, create a number of intelligent manufacturing demonstration enterprises and demonstration workshops, promote new models such as discrete intelligent manufacturing, process intelligent manufacturing, networked collaborative manufacturing, large-scale personalized customization, and remote operation and maintenance services, and improve the level of intelligent manufacturing pilot demonstrations.

2. Medical health. For medical process auxiliary scenarios, develop products such as guidance robots, voice electronic medical records, and intelligent consultations. For diagnosis and treatment scenarios, research and development of intelligent equipment such as digital medical imaging, analysis systems, diagnostic systems, and health detection systems. For personal health management and smart health care scenarios, build a health big data system, and develop products such as health virtual assistants, rehabilitation robots, health management wearable devices, audio-visual and physical intelligent

auxiliary devices. Support large-scale research and new drug research and development in genome identification, proteomics, metabolomics and other fields based on artificial intelligence. Promote intelligent medical supervision and strengthen intelligent monitoring and prevention and control of epidemics.

3. Transportation and logistics. Build intelligent transportation infrastructure based on artificial intelligence, Internet of Things, Beidou navigation and other technologies, promote intelligent road network monitoring and guidance and comprehensive operation coordination and command systems, and improve the level of intelligent collaborative management and control of the transportation system. Increase the research and development, promotion and application of intelligent logistics equipment such as loading, unloading, sorting and packaging, processing and distribution, build a deep-sensing intelligent warehousing system, and improve the level and efficiency of warehousing operation management. Improve the intelligent logistics public information platform and command system, product quality certification and traceability system, intelligent distribution and scheduling system, etc.

4. Cultural and creative tourism. Give full play to Hunan's first-mover advantage in the field of cultural and creative tourism, take industrial agglomeration areas such as Malanshan Video Cultural and Creative Industrial Park as the carrier, promote artificial intelligence technologies such as computer vision and deep learning, and take the lead in applying them in the fields of media, film and television, games, animation, industrial design, etc., to realize the intelligence of demand analysis, script design, content creation, editing and production, and precision marketing. Strengthen the development of technologies such as intelligent tourism information services, tourism e-commerce, digital research on historical and cultural heritage, and scientific and technological protection and restoration of cultural relics, promote the intelligent construction of museums, libraries, art galleries, and key scenic spots, and improve service levels and interactive experiences.

5. Green environmental protection. Highlight the environmental protection of major national strategic regions such as the Yangtze River Economic Belt, the Changsha-Zhuzhou-Tan regional atmospheric co-governance, and the "No. 1 key project" for the protection and governance of the Xiangjiang River, establish an intelligent monitoring big data platform system covering the atmosphere, water, soil and other environmental fields, and build an intelligent environmental monitoring network and service platform with land-sea coordination, heaven and earth integration, up-and-down coordination, and information sharing. Strengthen the construction of intelligent prediction models and methods for resource energy consumption and environmental pollutant emissions, early warning plans, and intelligent prevention and control systems for environmental emergencies.

Column 2: Artificial intelligence application demonstration scenario construction project

Promote the deepening of the application of artificial intelligence in intelligent manufacturing, medical and health, logistics and transportation, cultural and creative tourism, green environmental protection and other fields, and form a demonstration effect in local fields.

Implement artificial intelligence + to form AI+ factories, AI+ hospitals, AI+ schools, AI+ government affairs, and AI+ Finance, AI+ security, AI+ connected car test area, AI+ community, AI+ scenic spot, AI+ 10 in-depth application demonstration scenarios such as parks, and more than 60 application demonstration projects will be built in 3 years.

(4) Intensive agglomeration development plan

1. Create an industrial cluster.

Relying on Changzhou-Zhutan-Heng to create "Made in China 2025" Pilot demonstration city agglomerations to build a national-level artificial intelligence industry cluster. Promote the joint cultivation and construction of a number of artificial intelligence agglomeration areas, innovation demonstration areas, characteristic towns, and maker bases by ministries, provinces, provinces and municipalities. Rely on Changsha and Zhuzhou to cultivate intelligent networked vehicles and intelligent rail transit industry clusters. Relying on Xiangjiang New Area, Changsha High-tech Zone, Yuhua Economic Development Zone, Yuelu Mountain National University Science and Technology City, Zhuzhou High-tech Zone, etc., to build characteristic industrial parks or artificial intelligence science and technology cities. Relying on cities, counties and industrial parks with relatively good conditions for artificial intelligence innovation resources, build new entrepreneurial service institutions, form a good entrepreneurial ecology that gathers various resources, and create an open innovation and entrepreneurship base. Encourage leading artificial intelligence enterprises to build specialized maker spaces and incubate derivative entrepreneurial enterprises.

2、培育“专精特新”企业。

着眼细分领域，突出技术创新，加快发展一批“小巨人”、“隐形冠军”。鼓励各类产业园区、科技企业孵化器和众创空间，将人工智能作为优先支持和服务领域，推进科技成果转移转化，孵化培育创业企业。

在语音识别、模式识别、智能传感器、芯片等核心领域，建立重点企业培育库，对入库企业在平台建设、人才培养、品牌培育、模式创新等予以精准支持，培育一批具有竞争力的人工智能骨干企业和“独角兽”企业。鼓励企业通过多种形式开展跨区域、跨行业、跨所有制并购，对兼并重组等行政审批事项开通绿色通道服务。支持有条件的企业建设开放计算平台，提升服务能力，打造成为有核心竞争力和影响力的人工智能平台性公司。

3、引进领军企业。利用世界计算机大会、中国（长沙）网络安全·智能制造大会、人工智能（湖南）大会等平台，瞄准世界500强、大型跨国企业和行业领军企业，积极开展靶向招商、以商招商和补链招商。支持全球人工智能龙头企业在湖南设立研究机构、区域总部、创新中心、孵化基地和“双创”平台。支持有条件的地方编制全球人工智能产业重点招商项目库，策划引进一批高端产业项目和龙头企业。

专栏3：人工智能产业集聚发展工程

推动部省、省市联合培育和建设一批人工智能集聚区、创新示范区、特色小镇、众创基地建设。3年建设并授牌10个基地。

挖掘与培育本地人工智能“小巨人”、“隐形冠军”，引进全球人工智能龙头企业并在湖南设立研究机构、区域总部、创新中心、孵化基地和“双创”平台。重点培育企业不低于20个，引进全国知名人工智能龙头企业10家落户。

(五) 支撑体系构建计划

1、加大基础支撑平台建设。

以国家制造业创新中心、重点实验室、企业技术中心为重点，开展人工智能核心技术前瞻性研究，对产业方向和未来可能产生重大影响的应用领域进行系统性部署。鼓励省内高校、科研院所及人工智能核心企业，布局建设一批人工智能前沿基础技术研究、核心关键共性技术研发及典型应用开发的创新平台。

针对人工智能产业发展对计算资源、数据资源和技术服务等行业的核心需求，加大深度学习训练与知识大数据库、应用体验中心、开源软硬件基础平台、云计算服务平台、检验检测服务平台等公共服务平台建设，为创新创业提供支持，助推技术和产品市场化、产业化、规模化和国际化。

2、构建智能基础设施体系。

推动智能化信息基础设施建设。提升全省城镇光纤和4G覆盖，加快部署5G网络、窄带物联网（NB - IoT）等新型网络技术。加大工业互联网网络基础设施建设，推动工业互联网平台整合汇聚基础制造资源。加强国家超级计算长沙中心建设，构建高性能计算应用生态环境。加快部署云网端一体化车联网，优化“人-车-路-云”协同环境。

提升传统基础设施智能化水平。加快电网、公路、铁路、机场、港口等基础设施的智能化改造，形成动态、全面覆盖、泛在互联、精准决策的智能化系统。增强农林、水利、环保基础设施的智能管理能力。推进燃气、水务和地下管廊等城市基础设施的智能升级。

夯实数据资源基础。依托政府治理、公共服务、产业发展、技术研发等数据共享交换平台、数据开放平台等，整合社会各类数据平台和数据中心资源，建设完善基础信息数据库，形成覆盖全省、布局合理、链接畅通的一体化服务能力。

3、强化网络信息安全保障建设。

针对智能网联汽车、智能机器人、智能家居等人工智能重点产品或行业应用，开展漏洞挖掘、安全测试、威胁预警、攻击检测、应急处置等安全技术攻关，推动人工智能先进技术在网络信息安全领域的深度应用，促进漏洞库、风险库、案例集等共享资源建设。加快人工智能网络信息安全产业发展，形成人工智能安全防控体系框架和安全保障平台。加强重要领域工业控制系统、物联网应用和关键装备等制造业与互联网融合关键环节信息安全指导、风险评估和监督检查，加快建立工业信息安全工作体系和保障工作机制。

四、保障措施

（一）加强组织保障

Under the leadership of the leading group of strong manufacturing provinces, establish a liaison mechanism for the development of the artificial intelligence industry to strengthen overall planning, coordination, guidance and service. Support the construction of artificial intelligence industry think tanks and industrial innovation alliances, strengthen research on forward-looking and strategic major issues of artificial intelligence, and provide consultation and evaluation of major decisions.

（2）Increase policy support

Give full play to the demonstration and guiding role of financial funds, and encourage angel investment, venture capital and emerging industry investment funds to increase investment in the artificial intelligence industry. Encourage financial institutions to innovate financial products and services and support the development of the artificial intelligence industry. Explore the establishment of a provincial artificial intelligence industry investment fund, carry out the identification and reward of the first (set) of major technical equipment of artificial intelligence, and support the application of insurance subsidies

for the first (set) of major technical equipment in the country. Implement relevant preferential tax policies such as value-added tax deduction, comprehensive utilization of resources, and small and micro enterprises. Establish a "white list" system for artificial intelligence enterprises to accurately serve the development needs of enterprises.

(3) Deepen openness and cooperation

Build a cooperation network linking high-end artificial intelligence innovation resources around the world, and smooth communication channels with well-known foreign innovation centers, associations, and industry institutions. Encourage enterprises in the province to carry out technology research and development and industrial cooperation with relevant enterprises, universities and scientific research institutions at home and abroad, and jointly carry out the research and development and transformation of new technologies and products. Strive to substantively integrate artificial intelligence and intelligent networked vehicles into the Sino-German cooperation framework and integrate them into the global innovation and industrial development system. Support multinational companies and foreign research institutions to set up special institutions and production enterprises in Hunan. Encourage enterprises in the province to set up R&D centers, offshore incubators and implement overseas investment and mergers and acquisitions overseas to promote products and services to go global.

(4) Optimize the development environment

Encourage regions and industries with a good foundation and great development potential for the artificial intelligence industry to organize the transformation of artificial intelligence achievements, major product integration innovation, and demonstration applications. Support all localities to build artificial intelligence industry clusters and innovation highlands around the artificial intelligence industry chain and innovation chain. Regularly hold the World Computer Conference, Artificial Intelligence Conference, and Innovation and Entrepreneurship Competition, focusing on the world's top resources and stimulating the vitality of innovation and entrepreneurship. Increase research on relevant policies, laws and regulations, and promote the establishment of a system covering industrial technology, standards, applications, safety, law, ethics, etc. Strengthen the use and protection of intellectual property rights, and punish infringements in accordance with the law. Establish and improve the statistical monitoring system, and strengthen the analysis and monitoring of industrial development.

(5) Strengthen talent cultivation

Encourage and support qualified institutions and enterprises, strengthen cooperation and interaction with the world's top artificial intelligence research institutions and enterprises, and introduce top international scientists, high-skilled talents and high-level innovation teams. Support the flexible introduction of high-end talents through project cooperation and technical consultation. Encourage enterprises, universities, research institutions, etc. to jointly carry out various forms of talent training. Support universities in the province to optimize the allocation of disciplines and majors, adjust and create a number of artificial intelligence-related disciplines, improve the construction level of artificial

intelligence-related disciplines, and promote the interaction and integration of artificial intelligence with other disciplines. Support vocational colleges and enterprises to cooperate in building artificial intelligence talent training bases for key industry applications. Organize and implement overseas special training courses on artificial intelligence. Support the construction of "Xiangjiang Artificial Intelligence College".

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