

Notice on the Issuance of the Catalogue of Encouraged Industries in the Guangdong-Macao In-Depth Cooperation Zone in Hengqin

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**Notice of the National Development and Reform Commission on  
the Issuance of the Catalogue of Encouraged Industries in the  
Guangdong-Macao In-Depth Cooperation Zone in Hengqin**

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The People's Government of Guangdong Province, the Management Committee of the Guangdong-Macao In-Depth Cooperation Zone in Hengqin, and the relevant departments of the State Council:

The Catalogue of Encouraged Industries in the Guangdong-Macao In-Depth Cooperation Zone in Hengqin (hereinafter referred to as the Catalogue of Industries) has been approved by the State Council, and is hereby issued to you for your compliance and implementation.

The Catalogue of Industries is an important basis for guiding the direction of investment, managing government-approved investment projects, and formulating and implementing policies for the development of talent, land and other industries. The relevant departments of Guangdong Province and the State Council are requested to actively support encouraged industries in terms of overall arrangements for projects, funding arrangements, and support for the provision of factors based on their own functions. The Management Committee of the Guangdong-Macao In-Depth Cooperation Zone in Hengqin and its executive body shall fulfill their primary responsibility and do a good job in organizing the implementation of the Catalogue of Industries. The Commission will, in accordance with the decisions and arrangements of the CPC Central Committee and the State Council, do a good job in tracking, analyzing and supervising the implementation of the Catalogue of Industries, and coordinate the resolution of difficulties and problems in the implementation process in a timely manner.

National Development and Reform Commission

March 23, 2023

Annex: Catalogue of Encouraged Industries in the Guangdong-Macao In-Depth Cooperation Zone in Hengqin.pdf

## **Catalogue of Encouraged Industries in the Guangdong-Macao In-Depth Cooperation Zone in Hengqin**

In order to implement the requirements of the Master Plan of the Development of the Guangdong-Macao In-Depth Cooperation Zone in Hengqin, and speed up the development of the Guangdong-Macao In-Depth Cooperation Zone in Hengqin (hereinafter referred to as the Cooperation Zone), this Catalogue has been formulated in light of the actual situation of the Cooperation Zone.

Subject to compliance with the requirements of market access and international environmental conventions as well as industry management practices, this Catalogue applies to all types of enterprises engaged in production and operation in the Cooperation Zone. Where the State otherwise imposes any restriction on foreign investment access, such restriction shall apply.

The project approval authority within the scope of this Catalogue shall be implemented in accordance with the current relevant administrative regulations of the State. This Catalogue shall be revised in a timely manner as required for the development of the Cooperation Zone.

### **I. Scientific and Technological R&D and High-end Manufacturing**

1. Building of national laboratories, national key laboratories, national engineering research centers, national industrial innovation centers, state-certified enterprise technology centers, national technology innovation centers, national major scientific and technological infrastructure, national international science and technology cooperation bases, national offshore innovation and entrepreneurship bases for overseas talents, national industry-education integration innovation platforms, and quality inspection centers
2. Building and operation of high-tech entrepreneurship service centers, scientific and technological innovation service centers, international R&D communities, green technology innovation base platforms, new product development and design centers, science and education infrastructure, comprehensive public service platforms for industrial clusters, pilot bases, experimental bases, and experimental centers for traditional Chinese medicine science and technology
3. Branches of domestic and foreign scientific research institutions, new R&D institutions, international science and technology organizations, and representative bodies of international science and technology organizations in China
4. Development of technologies for supporting public service platforms in industrial clusters

5. Integrated circuit design, advanced integrated circuit packaging and testing, R&D and manufacture of specialty processes, R&D and manufacture of semiconductor equipment and key materials, integrated circuit chip design platforms (EDA tools), related software R&D, and supporting IP databases
6. Development and manufacturing of advanced manufacturing technologies such as electronic components, computers, information, biology, new materials, environmental protection, mechanical equipment, and precision instruments and equipment
7. Development and manufacturing of general-purpose or high-end general-purpose processors, storage devices, integrated development environments for operating systems, and other basic hardware and software and related testing and verification tools
8. Development of technologies based on IPv4, IPv6 and the next-generation Internet such as domain name resolution and route authentication, and development and manufacturing of system equipment, terminal equipment, testing equipment, software, and chips
9. Technology development for basic software, industrial software, software for emerging fields, industry application software, and embedded software
10. Open source software communities
11. Development of quantum, brain-like and other new mechanism computer systems
12. Artificial intelligence products, ergonomics, system simulation and design, development of biochips and related data acquisition and processing technologies, and manufacturing of testing equipment
13. Development of multi-dimensional display and printing technologies
14. Information technology development for the industrial Internet, autonomous driving technology, and intelligent consumer devices
15. Manufacturing technology development and design services for industrial design platforms, auxiliary design centers, rapid prototyping centers, and precision complex molds
16. Development and production of new polymer functional materials, bio-based materials, bio-based synthetic polymer materials, natural bio-based polymer materials, bio-based platform chemicals, biomimetic intelligent materials and metamaterials, low-dimensional materials and nanomaterials, high-performance fibers, new

electronic materials and electronic chemicals, advanced metal materials, new composite materials, superconducting materials, additive manufacturing materials, and new energy materials

17. R&D of smart energy systems and distributed energy resources

18. Development and production of energy Internet technology and equipment such as technology for making electricity generation from conventional and new energy complement each other, energy routers, and energy trading

19. Development of new energy vehicle charging station technology and equipment

20. Development of large-capacity electrical energy storage technology, and technology R&D for distributed power supply and grid (including microgrid) connection

21. Development of technologies and manufacturing of products for cleaner production, the comprehensive utilization of resources, and mobile new energy

22. Technology development for marine biomass energy and marine energy (including energy generated from tides, currents, and waves)

23. Development of solar photovoltaic technology, thermal power generation technology, and high temperature utilization technology, and design and manufacture of building-integrated solar components and equipment

24. Development of technology for the design of wind turbines with power ratings of 5 MW and above and supporting technology for wind farms

25. Technology and product development and services for digital economy-related industries such as cloud computing, edge computing, the Internet of Things, blockchains, high-performance computing, big data, and new media

26. Application of technologies and methods for confirming rights in, registering and trading data assets

27. Development of digital technology, high-speed computing technology, and cultural information resource sharing technology

28. Development and manufacture of digital multi-functional radars, special supporting equipment and components

29. Development of digital audio and video technology, digital radio and television transmission technology, integrated network management system technology for

radio and television, integrated network management system technology for network operation, Internet Protocol Television (IPTV) technology, and intelligent terminal technology

30. R&D of construction technology for critical network equipment, application systems for industry and enterprise informatization, sensor network nodes, software and system technology, R&D of large database technology, and research and development of electronic identity authentication technology

31. R&D of network information service technology

32. Construction and operation of Internet information services and Internet platforms (except services and platforms with media attributes and the function of mobilizing public opinion)

33. Development and manufacture of network security products, data security products, and special equipment for network supervision

34. Product development and services for information security technology

35. Development and manufacture of mobile phones, base stations, core network equipment, network testing equipment, and security products for the fifth and subsequent generations of mobile communication systems

36. Development and manufacture of value-added service application systems based on the integration of telecommunications, radio and television, and computer networks

37. Development of softswitch and IP-based voice transmission (VoIP) systems, service operation support management systems, and value-added service application systems for telecommunications networks

38. Development of optical transmission technology, small access device technology, wireless access technology, mobile communications technology, quantum communication technology, and optical communication technology

39. Development of food safety technology and biocatalysis, bioreaction and bioseparation technology

40. Development of rapid drug safety testing technology, and food and drug instruments and equipment

41. Technology development and services for marine medicine and biological

products

42. Development and production of emerging technologies and products such as gene sequencing, stem cells, functional proteins, and life and health
43. Development of bioengineering technology and biomedical engineering technology
44. R&D and applied technology development for marine engineering equipment, and development of smart ocean and marine information service technology
45. Development and manufacture of unmanned surface vehicles, unmanned aerial vehicles and autonomous unmanned intelligent systems
46. Development of key systems for smart ships, ships powered by new energy and clean energy, and smart ports
47. Development of key automotive components
48. Development of intercity, urban (suburban) railway, digital railway and intelligent transportation technology
49. Technology development for passenger-dedicated lines and high-speed rail systems
50. Yacht R&D and manufacturing, and sports boat manufacturing
51. R&D and manufacture of refrigerated containers and chillers
52. Development and production of aviation and aerospace technology applications, system software and hardware products, and terminal products
53. Development of air traffic management, communication, navigation and surveillance systems, a new generation of civil aviation operation and security systems, satellite communication application systems, and satellite navigation application service systems
54. Specialized science and technology services in various industries such as aerospace, biomedicine, the marine industry, new energy, new materials, low carbon, and environmental protection
55. Carbon Capture, Utilization, and Storage (CCUS) technology development and services

56. Development of green molecular design technology and technology for calculating the toxicity of and exposures to chemicals
57. Development of intelligent construction technologies such as green building materials, prefabricated buildings and steel-framed homes
58. Energy system management, optimization and control technology: focus on supporting the development of applied technology for urban building heating balance and energy conservation, green buildings, smart urban lighting, and green lighting systems
59. Development of key technologies for and production of urban ecosystems, and development of technologies for and manufacture of safe drinking water and advanced water purification equipment
60. Research on applied technology for the protection of aquatic ecosystems, and research on applied technology for defense against typhoons and storm surges
61. Development of technologies such as optical monitoring for environmental safety monitoring, early warning and emergency response
62. Development and application of domestic waste treatment systems, systems for the centralized utilization and disposal of hazardous waste, and systems for the centralized treatment of urban medical waste
63. Development of production and key technologies for urban high-precision navigation, high-precision remote sensing images, and 3D data
64. Development of city information modeling (CIM) related technologies based on big data, the Internet of Things, geographic information systems (GIS), etc.
65. Development of building information modeling (BIM) related technologies
66. Technology development for critical infrastructure security, public security, meteorological disaster and biological disaster prevention and protection, and emergency broadcast
67. R&D and manufacture of safety and emergency monitoring and early warning equipment, safety protection equipment, and emergency rescue and disposal equipment, and safety and emergency services
68. Development of key technologies for intelligent unmanned emergency rescue for major accidents and disasters

69. Development and protection of electrical safety technologies, new materials, technologies and equipment for lightning and surge protection, and information technologies and equipment for electric power construction

70. Development of technologies for the rapid detection of prohibited substances such as drugs and dangerous goods such as flammable and explosive materials, hazardous chemicals and radioactive materials

## **II. Traditional Chinese Medicine and Other Macao Brand Industries**

71. The application of advanced agricultural technology in the standardized planting and breeding of traditional Chinese medicinal materials, the development and application of new technologies for the extraction, purification and quality control of effective ingredients of traditional Chinese medicine, the development and application of process technology and production process control technology and equipment for modern dosage forms of traditional Chinese medicine, the secondary development and production of proprietary Chinese medicines, the development of medicinal animal and plant resources, and production bases that follow Good Agricultural Practices (GAP) for traditional Chinese medicinal materials

72. Development of industrial standards for the R&D, processing, production, testing and certification of traditional Chinese medicine, health and wellness products, proprietary Chinese medicines, foods that can be used as medicines, classic prescriptions of traditional Chinese medicine, and foods for special medical purposes

73. First-time development and production of generic drugs that meet the needs of prevention and treatment of major and frequently occurring diseases in China

74. Development and production of new anticancer drugs, new drugs for cardiovascular and cerebrovascular diseases, new nervous system drugs, antibody drugs, gene therapy drugs, cellular therapy drugs, recombinant protein drugs, nucleic acid drugs, marine drugs, etc.

75. Development and production of AIDS vaccines, hepatitis C vaccines, cervical cancer vaccines, new vaccines such as malaria vaccines and vaccines for hand, foot and mouth disease, and vaccines for diseases that might lead to a major epidemic

76. Development and production of new dosage forms, new excipients, drugs for children, and drugs in short supply

77. Development and production of natural medicines

78. Development and production of new drugs with independent intellectual property



rights

79. Development and production of cutting-edge life sciences and technologies, biological products, high-end medical equipment, and technologies and products for high-end medical apparatus and instruments

80. Development of new diagnostic reagents, and testing reagents and instruments for major epidemics and emerging infectious diseases

81. Development and production of new medical diagnostic instruments and equipment, equipment and instruments used in minimally invasive surgery and interventional procedures, medical emergency and mobile medical equipment, rehabilitation technologies and devices, home medical equipment, new medical materials, artificial organs and key components, and development and application of digital medical imaging products and health information technology

82. Development and production of new pharmaceutical technologies and new products

83. Development and application of membrane separation, supercritical extraction, new crystallization, enantioselective synthesis, enzymatic synthesis, continuous reactions, system control and other technologies in drug production

84. Development and application of energy conservation, consumption reduction and emissions reduction technologies and new pharmaceutical preparation technologies for API production

85. Development and production of new pharmaceutical packaging materials and technologies

86. R&D and manufacture of biomedical metallic materials, biomedical polymers, biomedical inorganic non-metallic materials or bioceramics, biomedical composites, and biomedical derived materials

87. Pharmaceutical R&D centers

88. Traditional Chinese medicine research facilities and laboratories, and famous veteran TCM doctors studios

89. Trade in traditional Chinese medicine services and transformation of achievements in scientific and technological services in traditional Chinese medicine

90. Traditional Chinese medicine talent training and exchange services

91. International registration and certification services for Chinese and Western medicinal preparations and biological products

92. Operation of trading platforms for green geo-authentic crude drugs and featured health products, national pilot demonstration bases for the transfer and transformation of medical and pharmaceutical achievements, and service platforms and trading centers for the transfer and transformation of achievements in medical and pharmaceutical technology

93. Design, production and sale of food, beverages, condiments and health products approved and registered in Macao and produced in the Cooperation Zone

94. Development and production of cosmetics (containing no more than 1 part per million mercury)

### **III. Cultural Tourism, Conventions and Exhibitions, and Commerce and Trade**

95. Creation and production of radio and television programs and stage art dramas (festivals)

96. R&D of digital cultural products such as digital music, mobile media, digital media, digital learning, digital film and television, and digital publishing and collections

97. Creation, production, distribution, and trading of digital content such as animation, e-sports, online broadcasting, digital art, online literature, paying for knowledge, cloud gaming, and immersive interactive scenes, and development of derivatives

98. R&D, design, processing and production of folk culture products and arts and crafts

99. Design, processing and production of traditional handicrafts

100. Cultural and creative design services, and cultural information resources development and creation services

101. Advertising creativity, planning, design, production, agency, release and other advertising services, and brand services

102. Visual communication design, architecture, landscape and interior design, industrial design, fashion design, high-end arts and crafts design and other creative design and services

103. Building of opening-up and connectivity platforms for the printing industry,

R&D and production of high-tech, digital and intelligent printing equipment, printing standardization research, printing exhibitions and related services

104. Building and operation of cultural industry parks
105. Operation of cultural activities and venues
106. Operation and management of facilities related to education and publicity on the Constitution and the Basic Law, national history, and national culture
107. Operation of theater, cinema, culture and arts, popular culture, and popular science facilities
108. Conservation and utilization of cultural relics and construction of facilities
109. Operation of amusement parks, aquariums, high-tech audio-visual industry bases (parks), exhibition halls, and museums
110. Operation of sports tourism such as marine sports and low-altitude flights over the sea, cruise tourism, yacht tourism, and island tourism
111. Development and operation of high-speed water passenger transport and intermodal passenger transport facilities and equipment, ticketing integration, and intermodal products
112. Operation of passenger terminals and yacht terminals
113. Cultural and creative tourism, health and medical tourism, convention and exhibition tourism, tourism performing arts, film and music festivals, folk activities, and inheritance and operation of cultural heritage
114. Operation of traditional Chinese medicine health tourism bases, forest health and wellness bases, forest experience base, national forest trails, campsites for self-drive tours (including RVs), business campsites, agricultural and forestry tourism scenic spots, hotels, and small and medium-sized family hotels and homestays with distinguishing features
115. Operation of tourism companies specializing in tourism in Guangdong, Hong Kong and Macao
116. Operation of tourism e-commerce
117. Branding and chain operation of culture, tourism and catering with distinguishing features

118. Building and operation of small and medium-sized family hotels and homestays with distinguishing features
119. Development and operation of commercial streets and tourist and entertainment venues with distinguishing features
120. Building of online service platforms for smart sports and e-sports
121. Management of sports, fitness and recreational activities, and sports venues and facilities
122. Sports & health and exercise & health services
123. Operation of international academic exchange platforms in the healthcare field, international medical organizations, international conferences and exhibitions in the healthcare field, and medical museums
124. Operation of third-party medical testing, health testing, health management, rehabilitation nursing, psychological counseling and other big health industries, and evaluation of medical quality, health training, and medical service capacity
125. International conferences, brand exhibitions, specialized exhibitions, art trading and related services
126. Operation of international convention and exhibition venues
127. Commodity trading
128. Trade brokerage, agency and services between the Mainland and Macao, Portuguese-speaking countries and countries jointly building the Belt and Road
129. International art (excluding cultural relics) displays, trading and auctions
130. Operation of auction companies
131. Cross-border e-commerce
132. Operation of comprehensive experiential shopping centers such as brand experience stores, brand outlet shopping centers, chain convenience stores, theme malls, supermarkets, and high-quality consumer goods centers
133. Operation of the Sino-Lusophone International Trade Center and the International Hub Port for Digital Trade

134. Development and operation of sharing economy and platform economy platforms
135. Supply chain management, services, technology innovation and application
136. Development and building of public information platforms for logistics
137. Third-party logistics and management
138. Operation of express delivery outlets, stores, etc.
139. Regional headquarters of multinational corporations, and Hong Kong and Macao-funded production, operation and management centers in the Cooperation Zone
140. Operation of the international aircraft and aerospace materials trading market
141. Air transport registration and aviation services
142. Development of industry (enterprise) management and information technology solutions
143. Professional and comprehensive services provided by contract research organizations (CROs), contract manufacturing organizations (CMOs), and contract development and manufacturing organizations (CDMO)
144. Technologically advanced services such as information technology outsourcing, business process outsourcing, and knowledge process outsourcing
145. Scientific and technological information exchange, literature information retrieval, technology consulting, technology incubation, evaluation of scientific and technological achievements, transfer and transformation of scientific and technological achievements, and scientific and technological authentication services
146. Standardized and information-based operation and management of tourism, commerce and trade, hotel and other service industries
147. Credit rating and enterprise credit reporting services
148. Human resources and human capital services and other professional services
149. Intellectual property agency, transfer, appraisal, search, analysis, evaluation, operation, certification, consulting and other services

150. Management consulting, policy research, urban planning, engineering management, energy conservation and environmental protection, inspection, testing and certification and other professional services

151. Legal, accounting, tax, energy conservation and environmental protection consulting and services

152. Asset valuation, calibration, testing, inspection and other services

153. Translation, localization services, language technology development and application, language resource services and other language services

#### **IV. Modern Financial Industries**

154. Securities companies and fund companies

155. Building of securities and futures brokerage, asset management, investment (trading) consulting, investment banking and other securities and futures service systems

156. Wealth management services and private banking, securities asset management, and provision of asset management services for specific clients by fund companies

157. Institutions that manage multi-currency venture capital funds, private equity funds, venture capital funds and private equity funds

158. Building of various fund issuance, trading and management service systems such as equity investment, land trust investment and securities investment

159. Development and application of financial instruments and financial products that revitalize stock assets such as asset securitization and real estate investment trusts (REITs) in the infrastructure sector

160. Professional insurance services such as life insurance, reinsurance, mutual insurance, captive insurance, and tariff guarantee insurance

161. Aircraft leasing, financial leasing, commercial factoring and other financial services

162. Building and operation of bond financing service platforms

163. Building of a two-way open service system for cross-border investment and financing

164. Cross-border finance and supply chain finance

165. Professional financial services such as overseas listing counseling services, cross-border M&A services, foreign-related comprehensive investment consulting, and the structuring of cross-border investment and financing.

166. Building of a green financial service system

167. Financial services for "agriculture, rural areas and farmers", small and micro businesses, owners of small and micro businesses, and privately or individually-owned businesses

168. Financial information processing and software development, and development of new financial business

169. Development and application of financial technology products by institutions established with the approval of and supervised by the financial regulatory authority, and export of services provided by affiliates of financial institutions

## **V. Others**

170. Higher education, international education, vocational skills training, and sports schools

171. Preschool education, vocational education, "Internet+" education (except online training for primary and secondary school students and preschoolers), and distance education

172. Language training without record of formal schooling for adults

173. Operation of medical institutions and healthcare facilities

174. Internet hospitals, "Internet+" healthcare services, and development of big data technologies for healthcare

175. Pharmaceutical enterprise operation and settlement services

176. Operation of medical research institutions such as advanced technology and clinical medical research centers, clinical trial facilities, and key laboratories

177. Elderly care services, childcare services, and housekeeping services

178. Submarine fiber optic cable construction and services

179. Construction of urban gas supply, cooling and water supply and drainage pipe networks, and construction and operation of urban underground pipe networks

180. Operation of urban roads and intelligent transportation system

181. Operation of intensive parking facilities such as parking structures, underground parking lots and multi-story parking garages with a mechanical parking system, and operation of electric vehicle charging facilities in parking lots

182. Urban landscaping and ecological conservation

183. Development of key technology products for sponge city construction

184. Development of a scheduling system and building of an information system for bus stations and truck terminals, urban bus stops, urban public transportation, and taxi service

185. Construction and renovation of comprehensive transportation hubs