Development Plan for Health Industry of Hainan Province   
(2019-2025)

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The health industry refers to a collection of activities, in which the whole community engages in providing health services and producing and operating health products for maintaining and promoting the health of the people. This industry mainly involves health service, t health product manufacturing, health agriculture, forestry, animal husbandry, and fishery, and new health operation types created by cross-border integration, with wide coverage, long industry chain, and great development potential. It is an important means and a breakthrough for promoting the comprehensive reform and opening up of Hainan and exploring higher-quality, more efficient, more equitable, and more sustainable development. With new historical conditions, the Plan is formulated according to the *Outline of the Healthy China 2030 Plan*, the *Guiding Opinions of the CPC Central Committee, and the State Council on Supporting Hainan in Comprehensively Deepening Reform and Opening-up* (ZF [2018] No. 12), and the decision and arrangement on the health industry development of the CPC Hainan Provincial Committee and the People's Government of Hainan Province and in combination with the actual conditions in order to fully follow the spirit of the 19th National Congress of the Communist Party of China and the spirit of the series of important speeches delivered by General Secretary Xi Jinping, fulfill the new mission of reform and opening up entrusted by the CPC Central Committee and the State Council to Hainan, promote the high-quality development of the health industry, and promote sound interaction between economic development and improvement of the people's livelihood. The Plan is prepared for the period from 2019 to 2025.

# I. Basic Environment

As an important window of China's reform and opening up and a platform for international exchange and cooperation under the Belt and Road Initiative, Hainan is building a pilot free trade zone across the island and exploring ways to promote the construction of a free trade port with Chinese characteristics. The State Council has approved the establishment of the Hainan Boao Lecheng International Medical Tourism Pilot Zone, and Hainan offers island-wide visa-free entry tourism services for 59 countries. Therefore, Hainan possesses policy advantages for developing the health industry. With superior location conditions, Hainan is located at the intersection of the Pan-Pearl River Delta "9+2" and the ASEAN Free Trade Area "10+1", which closely links the Pan-Pearl River Delta Economic Circle, the ASEAN Economic Circle, the China-ASEAN Free Trade Area (CAFTA), the Beibu Gulf Economic Zone, and the Pacific Economic Circle. With the forest coverage and the proportion of days with good air quality leading China, this unique tropical tourism island boasts a tourism resource belt integrating sunshine, seawater, beaches, vegetation, islands, and pastoral areas, which is rich in abundant resources of medicinal plants and animals, known as the "Natural Storehouse of Medicinal Plants" and the "Homeland of South China Medicinal Plants".

In recent years, Hainan's health industry has started steadily and is being developed rapidly, showing a good overall development trend. This industry continues to expand in scale and highlight its characteristics, preliminarily shaping a clustering pattern. In the first half of 2018, the added value was CNY 9.983 billion, a YoY growth of 23.2%, accounting for 4.1% of Hainan's GDP in the same period. The health tourism industry, led by the Boao Lecheng International Medical Tourism Pilot Zone, has developed rapidly, gathering resources in four aspects, namely, clinical research of stem cell, cancer treatment, medical and aesthetic anti-aging, and assisted reproduction, and the traditional Chinese medicine (TCM) health tourism covers Russia, Eastern Europe, Australia, and other markets. Although Hainan's health industry has been developed to a certain extent, it is still in its starting stage, with a low medical service level, the health product manufacturing industry is at a relatively low level, and it is difficult to drive and support the upstream and downstream expansion of the industry chain that is relatively short. New operation types develop slowly, regional differentiation needs to be highlighted, and industrial concentration needs to be improved also. This industry is still confronted with relatively weak technological support, a lack of incubation of high-end industries and service platforms, and no leading enterprises and brand effects. Talent and intelligence support are still weak and the supply of talents does not meet the demand of the industry development.

The development environment for Hainan's health industry is facing profound changes. The CPC Central Committee and the State Council issued the *Outline of the Healthy China 2030 Plan*, proposing to offer priority to the strategic development of health, building the health industry into a pillar industry of the national economy, and putting forward new requirements for the development of the health industry. The consumption structure of residents has been continuously upgraded, and the health demands of the people have continued to grow, showing characteristics of multiple levels, diversification, and individualization. The rapid progress of new urbanization and population aging has also further driven the rapid growth of health demands. A new round of scientific and technological revolution and industrial transformation accelerates its pace, new breakthroughs have been continuously made in the life technology and biological sciences, major technologies such as genetic engineering, molecular diagnostics, and stem cells have been expedited in their application and transformation, the new-generation information technology has driven profound changes in the traditional medical service model, and new health operation types and models have sprung up. Globally, the health industry has become a strategic choice for many countries to accelerate their efforts to seize the global commanding heights of industries. Asian countries are generally creating global health tourism destinations and developed countries are accelerating the "re-industrialization" process, so the competition is becoming fiercer.

# II. Overall Idea

## (I) Development Orientation.

We will closely center on the strategic orientation of building "a pilot zone for furthering all-round reform and opening up, a national pilot zone for ecological conservation, an international tourism and consumption destination, and a service zone for implementing China's major strategies”, fully understand and fulfill the new mission of reform and opening up entrusted by the CPC Central Committee to the Hainan Special Economic Zone, and execute a more proactive opening up strategy based on the construction of the China (Hainan) Pilot Free Trade Zone and a free trade port with Chinese characteristics, accelerate the pace to build a new system of open economy, fully integrate into major strategies such as Maritime Power and the practice of the Belt and Road Initiative, and shoulder the historical responsibility of setting up a vivid example of socialism with Chinese characteristics, construct Hainan into **a pilot zone for national health industry, a demonstration zone for high-quality integrated development of health industry, a comprehensive demonstration zone for scientific and technological innovation-driven health industry, an important strategic fulcrum for the health of the Belt and Road Initiative, and a global health tourism destination.**

## (II) Guiding Ideology.

Guided by the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will fully follow the spirit of the 19th National Congress of the Communist Party of China and the Second and Third Plenary Sessions of the 19th CPC Central Committee, thoroughly follow the spirit of the important speech delivered by General Secretary Xi Jinping at the convention in celebration of the 30th anniversary of the establishment of Hainan as a province and a special economic zone and the *Guiding Opinions of the CPC Central Committee and the State Council on Supporting Hainan in Comprehensively Deepening Reform and Opening-up* (ZF [2018] No. 12), implement the strategy of Healthy China, earnestly practice the major decisions and arrangements made by the CPC Hainan Provincial Committee and the People's Government of Hainan Province, and firmly establish new development concepts, **take the increasingly diverse and healthy demands of the people in the new era as the orientation, center on improving the quality and benefits of development, target at building strategic pillar industries, and focus on innovation, integration, openness and improvement, take new technologies, new products, new models and new operation types as the innovation-driven approaches, and take a number of major projects as the means,** focus on transforming government functions, strengthen innovation-driven development, highlight featured industries, innovate in development models, transform growth drivers, **and expand an all-round and full-cycle health industry chain, promote the in-depth integration of medical care, medicine, tourism, health, sports and food with the new-generation Internet, health big data, health housing and health fintech, build a world-leading smart health eco-island, a strong province in the health industry and a globally important health tourism destination,** and strive to turn the health industry into a core engine for Hainan's economic transformation and upgrading.

**- Adhering to a government-led and market-oriented approach.** We will strengthen the responsibilities of the government in system development, planning, policies, and supervision. We will give full play to the decisive role of the market in resource allocation, actively cultivate and strengthen diverse market players, accelerate health industry innovation guided by innovation in health undertakings, and encourage broad participation of social forces in the development of the health industry, and promote the expansion and structural optimization of industrial factor resources to meet the multi-level needs of the people.

**- Adhering to further reform and wider opening-up.** We will focus on system innovation, streamline administration, delegate power, strengthen regulation and improve service, remove institutional and mechanism obstacles that prevent the health industry from further growth, break the bottleneck of industry development, implement the "two-wheel drive" strategy of health undertakings and the health industry. We will benchmark against internationally leading health industry clusters, accelerate creating a new picture of comprehensive opening up, actively integrate into the Belt and Road Initiative, make full use of the "domestic and international markets" and "domestic and international resources", and strengthen the analysis and judgment of the international market, attract high-end factors from the entire world, make health consumption at home and abroad more attractive, and create an open and win-win industry ecology.

**- Adhering to innovation leading and quality and efficiency improvement.** We will implement the innovation-driven development strategy, accurately figure out the characteristics of the health industry, and aim at the international innovation frontier, actively explore innovations in technology, products, services, operation types, modes, and standards that meet the needs of the industry development. We will center on the innovation chain of scientific and technological research and development, the transformation, application, and demonstration of achievements, industry clustering and factor guarantee, cultivate a number of innovative talents, build a number of innovation platforms, and develop a number of innovative enterprises.

**- Adhering to featured development,** **fusion, and clustering.** Focusing on building a world-leading smart health eco-island and an important health tourism destination in the world, we will scientifically determine the development priorities of the health industry in the province, cities, and counties based on local conditions, guide the preferential development and cluster development of featured and advantageous fields through the demonstration and leading roles of backbone enterprises and major projects, connect points to lines, and lead areas by points, promote in-depth integration within the industry and cross-sector integration with health and related fields, upgrade traditional health operation types, and foster and strengthen new health operation types.

## (III) Overall Deployment.

We will take "three zones and one center" as the benchmark orientation for the development of Hainan's health industry, comprehensively further the reform and opening up as the basic means for the development of Hainan's health industry, and the development path of the health industry with Hainan characteristics as the basic requirements, deeply fuse in the construction of China (Hainan) Pilot Free Trade Zone **and build the health industry into a leading industry for promoting the construction of a free trade port with Chinese characteristics and opening up the whole island to a higher level.** We will firmly follow the path of innovative development, give full play to advantages in resources, rely on science and technology and talents, implement differentiated development strategies, adhere to the development concept of "We have what others don't have and we have special characteristics compared to others", target market segments, take characteristics as the leading role, accelerate the development of advantageous fields, drive the extension and expansion of the industry chain vertically, promote the integration of the health industry and related industries horizontally, and realize the linkage between regions in the breadth, promote the overall health industry to a high level, and build the brands of **"Healthy Hainan", "World Health Island", and "World Longevity Island"**.

**- Gathering advantageous fields to drive the extension and expansion of the industry chain.** We will rely on the Boao Lecheng International Medical Tourism Pilot Zone to accelerate the development of international health tourism and high-end medical services. In addition, **we will take the high-level medical service industry and the health tourism industry as the guide**, utilize high-level medical services to promote the supply-side structural reform in the medical and health field and innovation, upgrading, supporting, and guidance led by health product manufacturing, health service design, and health consumption, form an industry ecology of a global health tourism destination for individuals, families, communities, and cities. Furthermore, we will strengthen the high-quality development of health services such as rehabilitation and recuperation, TCM health services, and health insurance, and drive the innovation and upgrading of the health product manufacturing industry such as high-level medicine services and smart wearable devices, promote the development of new health models and new operation types, and enhance the core competitiveness of the international tourism consumption center. Moreover, we will take the advanced pharmaceutical manufacturing industry as the support, rely on the existing pharmaceutical industry foundation, deploy the pilot transfer and transformation of major new medical innovation and major national scientific and technological achievements, accelerate the development of the advanced pharmaceutical industry, and further improve the quality of the health service industry through high-end medicines, medical devices, and other pharmaceutical products. And, we will link and promote three key fields of health tourism, medical care, and medicine, drive medical care with tourism, promote medicines with medical care, and facilitate tourism with medicines, continuously optimize and expand the industry, and create an all-around and full-cycle health industry chain.

**- Focusing on a number of projects to promote industry integration and the development of new operation types.** We will implement a number of major projects with good growth potential, obvious supporting effects, and strong leading and driving capacity, promote the in-depth integration of new-generation information technology, life science, bioengineering technology, and medical and health care, drive product integration and market integration with technology integration, continuously expand new development space, and accelerate the integration of the health industry with the primary, secondary and tertiary industries.

**- Giving full play on own comparative advantages to achieve regional differences in orientation and develop in groups.** We will take the spatial layout, industrial foundation, and resources of regions in the province into overall consideration in accordance with the principles of industry clustering, differential coordination, and balanced development and take the preliminary industry clustering as the basis to implement differentiated development strategies, give full play to the comparative advantages of different regions, suit our measures to local conditions, highlight characteristics, promote strengths and avoid weaknesses, guide cities and counties to accurately position target groups, scientifically determine leading industries and development paths, and avoid low-level and homogeneous competition.

## (IV) Development Objectives.

By 2025, we will establish a health industry system with a complete system, an optimized structure, and distinctive features and preliminarily build a leading smart health eco-island and an important health tourism destination. A number of large enterprises with strong innovation capacity and international competitiveness will be gathered, smart health services will reach the international leading level, the scale of the health industry will be expanded significantly, its international influence will be continuously enhanced, the health industry will be an important strategic pillar industry of the national economy, and its development level will lead China in terms of overall development.

**Public health will see a steady improvement.** The basic medical and health service system covering both urban and rural residents will be consolidated and optimized, the health system will be further improved, and the level of grass-roots medical services will be continuously improved, and the objectives that major health indicators, such as life expectancy, infant mortality, under-5 mortality, and maternal mortality, will move faster to reach the national advanced levels, laying a solid foundation for all people for high-quality development of the health industry.

**The health industry will be obviously expanded in scale.** An all-around and full-cycle health service industry, an innovation-driven health product manufacturing industry, and new cross-sector integration operation types with distinctive features will be established, the economic and social development will play a significant role in driving economic and social development, and the proportion of the added value of Hainan's health industry in GDP will increase significantly.

**The industry structure will be prominently optimized.** The coverage of medical resources and health products will be further expanded, the growth rate of health expenditure will be within a reasonable range, the proportion of new health operation types will be obviously increased, and the attraction to the international and domestic health consumption markets will be continuously enhanced.

**The innovation capacity will be effectively improved.** Health science and technology innovation, health industry development, and business environment will be first-class in China, and science and technology innovation and the ability to transfer and transform achievements will lead in China. We will build a smart health industry cluster highland, a health industry innovation center with global influence, a domestic medical device innovation industry cluster, and a health big data resource innovation industry cluster, and significantly improve its international competitiveness.

**The clustering effect will show up preliminarily.** A number of multinational enterprises and well-known brands in the health industry with strong international competitiveness will be gathered to form a group of application platforms, investment and financing platforms, and open cooperation platforms for scientific and technological innovation and transformation in the health industry and turn to be a global high-level health industry cluster demonstration zone.

To achieve the above objectives, we will deploy and advance in two stages based on regional competition and existing foundation:

- The period from 2019 to 2020 is the stage for consolidating the foundation and upgrading the quality of Hainan's health industry. Our major tasks are to further improve and upgrade the infrastructure related to the smart health eco-island, accelerate the upgrade of regional comprehensive support services, and continuously optimize the business environment, make breakthroughs in high-end medical services, international health tourism, Internet-based smart healthcare, rehabilitation, and recuperation, and other key fields and industries with unique advantages, and significantly expand the supply of diversified, individualized and high-quality health services, further play the key role of Boao Lecheng International Medical Tourism Pilot Zone in Hainan's health industry, basically realize the "three synchronizations" of medical technologies, devices, and drugs with the international advanced level, and reach the international advanced level in medical services. Breakthroughs will be made in the coordinated development of health industry clusters such as Haikou-Chengmai-Wenchang and Greater Sanya. The added value of the health industry will account for 5% of Hainan's GDP, and the health industry will become a pillar industry.

- The period from 2021 to 2025 is the stage for fully developing and accelerating the development of Hainan's health industry. Our major tasks are to vigorously promote the high-level integration, clustering, and all-round innovation of the health industry, substantially improve the industry's radiation and driving capacity and core competitiveness, make efforts to make the health product manufacturing industry stronger, and develop health agriculture with distinctive features on the basis of high-level development of key industries in the field of health services, basically form a health industry system featuring high-efficiency coordination and high-quality development of primary, secondary and tertiary industries, and comprehensively improve the development quality and efficiency of Hainan's health industry. The added value of the health industry will account for 10% of Hainan's GDP.

# III. Regional Layout

In accordance with the overall deployment for Hainan's economic and social development, we take into account the foundation for the development of the health industry and the conditions for the allocation of resource factors to build a health industry development pattern featuring "**One Core, Two Poles, and Three Regions**", that is, we will take the Boao Lecheng International Medical Tourism Pilot Zone as the core and the Haikou-Chengmai-Wenchang Integrated Economic Circle and the Greater Sanya Tourism Economic Circle as the two major growth poles, and drive the coordinated development of the eastern, central and western regions of Hainan in an orderly manner.

## (I) Led by "One Core".

We will take the Boao Lecheng International Medical Tourism Pilot Zone as the core of Hainan's health industry, gather high-quality medical resources and high-end factors at home and abroad, and accelerate the development of international health tourism and high-end medical services, promote the high-level clustering and development of the international leading biopharmaceutical industry, apply and transform clinical medicine and medical technology, carry out research and innovation in terms of tropical diseases, and stimulate the development of Hainan's health industry. We will build the Pilot Zone into a world-class international health tourism destination, a world-leading medical innovation platform and medical and health center, and a high-level medical and health innovation talent pooling zone.

## (II) Driven by "Two Poles".

According to the economic and social development pattern of Hainan Province and based on the existing foundation and advantages of the Haikou-Chengmai-Wenchang Integrated Economic Circle and the Greater Sanya Tourism Economic Circle, we will boost a number of characteristic and competitive industries, continuously enhance the influence and competitiveness at home and abroad, create growth poles of the health industry in northern and southern Hainan, and drive the high-level development of Hainan's health industry.

**- Growth Pole of Health Industry in Northern Hainan.** It covers the Haikou-Chengmai-Wenchang Integrated Economic Circle, including Haikou City, Wenchang City, and Chengmai County. We will focus on promoting high-end medical services, Internet-based smart health, and health preservation and rehabilitation services, and pharmaceutical research, development, and manufacturing with the characteristics of "rich selenium" and "longevity": Take the Hainan General Hospital as the leader and rely on the high-quality medical resources of Haikou City to promote the development of high-level medical service industry; plan and build three databases, namely, the whole population, the electronic health records, and the electronic medical records of all the people in Hainan, to support the development of the smart health industry; deeply explore the elements of longevity, rich selenium, and ecology in Chengmai, develop the health, elderly care and health preservation service industries, build the brands of "Selenium-Rich Land of Hainan and Land of Longevity in the World", and build a cluster of smart medical projects in the Hainan Ecological Software Park; give full play to the advantage of the longest coastline in Wenchang, build medical and health preservation belt-shaped parks along the Puqian Bridge and tourist highways and turn them into a coastal health preservation highland of the Haikou-Chengmai-Wenchang Integrated Economic Circle; and expand the industrial clusters of Haikou Medicine Valley and Mei'an New Medicine Valley, and accelerate the development of the pharmaceutical manufacturing industry.

**- Growth Pole of Health Industry in Southern Hainan.** It covers the Greater Sanya Tourism Economic Circle, including Sanya City, Ledong County, Lingshui County, and Baoting County. We will offer priority to promoting the development of such industries as TCM health tourism, featured marine fitness and leisure activities, health management services, rehabilitation and recuperation featuring hot springs, sand therapy, and tropical rainforests, and pastoral complexes of health agriculture: Center on Sanya City and rely on the Sanya Hospital of Traditional Chinese Medicine to build an international TCM health tourism demonstration zone for international medical tourists, and promote the development of TCM service trade; accelerate the development of Sanya as a "national sports and leisure sports city" and develop the marine fitness and leisure sports industry; shape a urban operation system for continuous service of active health management characterized by non-medical health intervention services in sports, nutrition, psychology, and environment; utilize the advantages of the ecological environment, climate conditions, and agricultural and land resources to accelerate the development of the Nanping Medical Health Industrial Park, create a number of health tourism and holiday products integrating such elements as ecology, marine features, outdoor and ethnic culture in Ledong, Lingshui and Baoting, develop the health, health preservation, and elderly care services featuring hot springs, sand therapy, and tropical rainforests, extend and expand the industrial chain of TCM in the reclamation areas, and develop with the Sanya international tourist destination of TCM in a complementary manner.

## (III) Coordination of "Three Regions".

Relying on the abundant natural and ecological resources, tourism resources, and distinctive ethnic and cultural resources in the eastern, central, and western regions of Hainan Province, we will support cities and counties in Hainan to cultivate leading industries with distinguishing features based on the actual conditions to develop important support for the development of Hainan's health industry, and build a coordinated development pattern featuring "small clusters at nodes, large linkage of clusters, and wide coverage of regions".

**- Eastern Region: Focus on Wanning.** We will promote the construction of Xinglong Park for South China Medicinal Plants, build six sports bases for surfing, dragon boat, sea fishing, diving, yachts, and seaplanes, and combine resources such as Xinglong hot springs, build a characteristic hot spring health preservation tourism destination of marine fitness leisure sports and south China medicinal plants. We will enhance the clustered development with Qionghai and the Greater Sanya Tourism Economic Circle.

**- Central Region: Focus on Wuzhishan, Dingan, Tunchang, Qiongzhong, and Baisha.** We will focus on cultivating the national medicine industry with the characteristics of south China medicinal plants, medicinal aromatic plants and Li herbs and the health food industry, build a number of standardized, large-scale, and modern breeding bases for improved varieties and fine seedlings of south China medicinal plants and medicinal aromatic plants, strengthen the development of south China medicinal plants and medicinal aromatic plant resources such as *Areca catechu*, *Alpinia oxyphylla*, *Fructus amomi*, *Morinda officinalis*, *Millettia speciosa*, *Callicarpa nudiflora*, *Morinda citrifolia*, and *Nauclea officinalis*, develop health care food and health food with south China medicinal plants characteristics, and develop health preservation tourism with characteristics of medicines of Li and Miao nationalities; and we will make full use of the health preservation environment of phytoncide and negative oxygen ions generated by the tropical rainforests such as Wuzhi Mountain and Diaoluo Mountain to develop rainforest-based health preservation tourism. We will strengthen the clustering and linkage with the eastern region in the health preservation and elderly care industry.

**- Western Region: Focus on Danzhou, Dongfang, Lingao and Changjiang.** Relying on excellent forest and coast resources, we will build a group of health preservation, leisure, and health tourism destinations represented by the Haihua Island Resort, Dongpo Culture Tourist Area, Changjiang Qizi Bay Resort and Health Preservation Area, Original Hometown of Li Nationality, Danzhou Lanyang Hot Spring Resort, and Changjiang Bawang Ridge Hot Spring Resort. We will center on Danzhou to develop the outdoor fitness and leisure industry, and carry out international chess, marathon, beach sports, water skiing, hiking, camping, and other sports events and experiential activities. And, we will strengthen industrial linkage with Haikou-Chengmai-Wenchang Integrated Economic Circle, the Beibu Gulf, and Indo-China Peninsula.

# IV. Major Fields

Centering on multi-level and diversified health needs, we will focus on major fields and key links, further the supply-side structural reform of the health industry, promote the high-quality development of the health service industry, guide the innovation and upgrading of the health product manufacturing industry, accelerate the modernization of health agriculture, promote the integration and development of the health industry and related industries, and build an all-round and full-cycle modern health industry system with Hainan characteristics.

## (I) Leading the Health Service Industry for High-quality Development.

The health service industry is directly oriented to consumers and at the high end of the industry and value chains, which is not only a carrier to meet multi-level, diversified, and individualized health needs, but also the foundation to promote the extension of the industry chain and the integrated development of industries. Guiding the health service industry to develop towards high quality and expanding the supply of high-quality services is the key to enhancing the attraction and radiation of health consumption in Hainan.

**1. Vigorously develop an all-around, full-cycle, high-level and multi-level medical service industry. Consolidate the foundation of medical services, and strive to meet the needs of residents in Hainan Province for health services.** We will intensify the reform of the medical and health system, increase financial input, and further establish and improve the basic medical service system, improve the three-level medical and health service network in rural areas, strengthen the development of municipal and county-level hospitals, health centers in towns and townships, community health service centers (stations), and village clinics, and improve the service capacity. According to the requirements of the state on county-level hospitals, we will improve the service capacity of municipal and county-level hospitals and build at least one provincial hospital for each city or county, and support the construction of five regional medical centers in Haikou, Sanya, Qionghai, Danzhou, and Wuzhishan, consolidate and improve the service capacity of provincial medical and health institutions, and build a "1-hour three-level hospital service circle". In addition, we will support the construction of the Hainan General Hospital as a national regional medical center. Moreover, we will improve the specialty system of Hainan Province, strengthen the construction of key clinical specialties, and ensure that each city or county has at least 2-3 provincial-level key clinical specialties. Furthermore, we will strongly support the establishment and development of chest pain centers, stroke centers, trauma centers, treatment centers for critically ill pregnant women, and treatment centers for critically ill children and newborns. Supported by the development of an integrated remote, mobile and smart medical operation platform, we will build an active health hospital integrating TCM, Western medicine, and sports medicine and a continuous service center for active health management; and we will reform and improve the emergency medical rescue system, strengthen the configuration of facilities and equipment, and build a 24h emergency rescue network covering the whole island. We will comprehensively strengthen the development of the public health service system and accelerate the establishment and improvement of a comprehensive prevention and control mechanism for chronic diseases led by the government, supported by multiple departments, and mobilized by the people to improve health services for key groups such as women, children, the elderly and the disabled. **Develop high-level medical institutions run by social forces to accelerate the formation of a diversified pattern of running medical institutions.** We will encourage social forces to invest in the medical field by means of investment in new construction and participation in restructuring, encourage social forces to invest in construction, and cooperate with them in various cooperation modes in the management and operation of public hospitals. In addition, we will encourage social forces to enter such fields as specialized medical services, third-party medical services, rehabilitation, nursing, and the application of cutting-edge medical technologies, and we will create high-level medical service operation types featuring sports medicine, medical beauty, anti-aging, assisted reproduction, professional medical rescue, etc. We will strengthen the specialty and expertise features of medical institutions run by social forces and cultivate a large number of medical institutions run by social forces with standardized services, excellent technology, and excellent management in the five major medical centers and the pilot zone. Moreover, we will support social forces to participate in the provision of basic medical and health services under the service purchase mechanism of the government and expand the supply of high-quality and efficient medical services. We will include all medical institutions run by social forces in the hierarchical diagnosis and treatment system and support such institutions to participate in the construction of specialty alliances and other medical consortiums. We will vigorously develop third-party services related to medical care such as professional medical inspection, health inspection, imaging, preparation, disinfection, mobile physical examination, and chronic disease management and support the development of health intermediary services such as third-party medical device services. And, we will guide overseas pharmaceutical enterprises to set up after-sales service centers in Hainan.

**2. Create a health tourism industry with international influence.** We will make full use of the environment of "Land of Longevity", the resource base of “Natural Storehouse of Medicinal Plants", and the policy advantage of "Pilot" in Hainan. We will vigorously develop international health tourism products featuring modern technology, traditional medicine, and the ecological environment, establish a sound modern medical system and a sound tourism service system, promote Hainan's health tourism to develop towards high-end health care services, TCM services, special rehabilitation, recuperation, leisure, and health preservation, and create a global health tourism destination at a high level. **Further, enrich health tourism products.** Relying on high-level medical institutions and tourism resources in such regions as the Boao Lecheng International Medical Tourism Pilot Zone, we will develop high-end medical services and international health tourism, and aim at the international market to create an industry chain featuring physical examination, health management, medical services, rehabilitation, recuperation, licensed medical services, medical beauty, anti-aging, reproductive health, and international health exhibition services. Relying on the construction of the demonstration bases of TCM health tourism in Haikou and Sanya, we will develop health tourism brands integrating high-end medical care, international business, rehabilitation, leisure, and recuperation. We will support cities and counties to give full play to their advantages in natural resources and cultural characteristics, and develop health preservation and rehabilitation tourism products such as climate-based health preservation, featured specialties, rehabilitation, recuperation, a combination of medical treatment and recuperation, forest-based vacation and recuperation, and leisure and health preservation. In addition, we will encourage establishing cross-city/county, cross-province, and cross-border health tourism alliances or collaboration networks to actively extend the industry chain. We will actively promote the large-scale development of sports-based medical care and health preservation tourism, cultivate medical industries such as care and rehabilitation, anti-aging, and sports sprain rehabilitation, and strive to build our province into an international medical care, health preservation and rehabilitation tourism destination. Furthermore, we will develop cycling, ball games, gymnastics, and other popular leisure sports with high attention and large markets and focus on the development of water sports, yacht sports, golf, and other consumption-led fitness and leisure projects. We will support social forces to integrate and improve the planning, route design, operation type cultivation, operation management, publicity, and promotion levels of health tourism product and service projects and improve the quality and efficiency of the industry development. **Promote the international development of health tourism.** We will build a number of internationally competitive and influential health tourism brands, build a joint recommendation platform for international and domestic health tourism routes and high-quality products such as health tourism and healthy life experience, and open up international health tourism routes facing the countries and regions of the Belt and Road Initiative and countries in such regions as East Asia, Southeast Asia, Australia, and Eastern Europe and joining hands with provinces and cities with advantages in the development of the health industry. We will support medical institutions to obtain international medical quality management certification and establish cooperative relations with international health insurance institutions.

**3. Boost the health service industry of characteristic TCM in Hainan.** **Develop health preservation and health care services with TCM.** We will carry out the Health Project of Preventive Treatment of Disease with TCM, rely on Sanya National TCM Health Tourism Demonstration Base, promote the construction of TCM health preservation and care bases, and standardize TCM health preservation and care services. We will support qualified institutions to apply for titles of national TCM health tourism demonstration areas, bases and projects and develop a number of TCM health tourism routes and products with strong experience nature and wide participation. We combine Hainan's advantages of the characteristic TCM with health management to explore a TCM health insurance mode integrating health culture, management, and insurance. We will pilot to file "ingredients used both as medicine and food" in Hainan and promote the development of health preservation and care products of TCM. **Promote the development of the TCM service trade.** We will take the lead and pilot in terms of service quality standards, explore and implement standards for the construction of demonstration bases for TCM tourism service trade and service standards for TCM service trade, and promote the standardized development of the industry. We will promote the standardized construction and chain development of TCM outpatient departments and clinics. We will promote multi-level international cooperation in TCM, encourage qualified hospitals of TCM to set up international medical departments or foreign service departments to provide high-end medical and health care services, and encourage qualified institutions of TCM to set up institutions of TCM service trade at home and abroad to promote TCM services to go global.

**4. Develop the diversified rehabilitation and recuperation service industry.** Relying on Hainan's unique climate conditions and rich resources of hot springs, cold springs, forests, air with a high content of negative oxygen ions and selenium-rich soil, as well as the characteristics of south China medicinal plants, Li herbs, and marine medicinal plants, we will offer diversified services in the forms of medicinal bath, acupuncture, and national medicine therapy of TCM to provide high-quality health products and services for domestic and international markets, such as health recuperation, recuperation of chronic diseases, recuperation of occupational diseases, sports rehabilitation, and recuperation of geriatrics. We will create an operation type of climatotherapy service with Hainan characteristics and launch world-leading climatotherapy service projects for key groups such as children and the elderly. We will develop special treatment services, research and explore the medical and health care principles of hot springs and sand treatment in Hainan, and cultivate a number of high-level special treatment institutions with integrated and continuous service modes, excellent technical skills, and sound standards and specifications. We will establish rehabilitation and recuperation bases for astronauts, divers, and other professionals and establish rehabilitation and recuperation projects for astronauts and divers that are in line with international practices. We will support elderly care institutions to expand and improve their capacities of basic medical services, and elderly care institutions may set up such organizations as geriatric hospitals, rehabilitation hospitals, nursing homes, and hospitals of TCM in accordance with relevant regulations. In addition, we will guide social capital to enter the field of elderly care services. Furthermore, we will innovate in key technologies such as smart rehabilitation, recuperation and elderly care sensors, monitoring and analysis, and strengthen the integration of relevant institutions and wearable devices, portable health monitoring devices, smart elderly care devices, and other hardware for health management, and integrate the rehabilitation, recuperation, and elderly care data management and service system to provide more convenient, accurate and efficient rehabilitation, recuperation and elderly care services.

**5. Extensively develop the fitness and leisure sports industry.** We will make full use of green space in parks, vacant urban places, public green space in residential areas, roofs of buildings, basements, and other areas to build a number of community fitness and leisure facilities such as golf courses, fitness trails, hiking trails, sports parks, fitness belts along rivers, lakes and coasts, fitness equipment fields, and gyms. Relying on the construction of the international tourism island, we will actively introduce international competitions and events to develop a number of international brand competitions and annual large-scale festivals, actively promote cultural exchanges, trade exhibitions, and academic forums in the fields of leisure sports and health. We will promote the construction of community health promotion service centers in the whole province. We will explore the national folk culture and festival brands, develop sports events with wide popularity, high attention, and large market space, and expand the influence of traditional sports and fitness activities with local characteristics. We will establish and improve the exercise prescription database for different groups of people, different environments, and different physical conditions, and support social forces to run health management organizations with scientific fitness as the core that combine sports with medical services to promote scientific fitness services for all people to health promotion, chronic disease prevention, and rehabilitation.

**6. Actively develop health insurance services.** Based on the demand for health insurance in the region, we will integrate basic medical insurance resources and steadily improve the level of insurance security. We will make innovations on the payment and management mechanism of medical insurance and further facilitate the settlement of medical insurance for people seeking medical treatment in Hainan and other places. We will fully develop the pilot and promotion of commercial health insurance with tax preferences for individuals. In addition, we will encourage commercial insurance institutions and specialized health insurance companies to expand the range of specialized health insurance products and develop integrated insurance services that meet the requirements of international health tourism, design diversified health insurance products in line with the development of new health service formats, and launch medical insurance products that cover international cutting-edge medical technologies, innovative drugs, and high-end medical devices and explore and develop Internet-based health insurance products and services. We will support the establishment of professional health and endowment insurance institutions in regions such as the Boao Lecheng International Medical Tourism Pilot Zone to continuously optimize claim settlement service and provide domestic medical treatment, rescue, insurance compensation, and settlement services for domestic and overseas policy holders. We will encourage extending and expanding the health industry chain, promote the coordinated development of health insurance and health management services, explore the in-depth integration mode of family doctor teams, medical institutions, health consulting institutions, health examination institutions, and commercial health insurance institutions, and build an all-round and full-cycle health service chain.

**7. Accelerate the development of smart health services.** We will further promote the "Internet + medical care", innovate and develop Internet-based hospitals, remote medical care, medical artificial intelligence, and other new operation types, and explore the combined online and offline development mode. In addition, we will promote the integrated development of artificial intelligence (AI) and medical care and promote the application of AI-assisted robot surgery, assisted diagnosis and treatment based on influence data, drug screening and mining, gene big data, health management, etc. By means of "Internet +" and in combination with big data, AI, and other new-generation information technologies, we will expand the space and content of medical services, optimize medical service procedures, and further improve the quality and efficiency of medical services. Furthermore, we will encourage the Boao Lecheng International Medical Tourism Pilot Zone, Haikou, Sanya, and other areas with concentrated medical resources to expand the coverage of smart health services by means of the Internet, AI, and the Internet of Things, improve the convenience and accessibility of services, provide grassroots communities, villages and towns with smart medical and health services such as remote consultation, remote ECG diagnosis, remote imaging diagnosis, and chronic disease management, and support the development of a hierarchical diagnosis and treatment system and contractual family doctor services. We will strengthen health information collection and early warning and prediction capabilities, develop mobile medical vehicles, ships, helicopters, and other important equipment for emergency rescue, and build a military-civilian integrated emergency rescue information platform to improve the 24h response capacity of emergency medical rescue. Relying on Internet-based industrial towns, national high-tech development zones, eco-software parks, and other carriers, we will establish medical big data industry cluster parks, explore the standardized access of data resources generated by wearable devices, smart health electronics, and medical mobile applications to the population health information platform, establish a full-process and multi-dimensional individual health data chain based on big data analysis, build continuous smart and active medical services for pre-hospital, in-hospital and post-hospital stages, develop precise health services for individuals and families, and promote the development of new operation types based on big data of health and medical care. In addition, we will introduce and cultivate specialized pharmaceutical distribution enterprises and support such enterprises to cooperate with medical institutions, medical insurance companies, and e-commerce enterprises to provide pharmaceutical e-commerce services.

## (II) Promoting the Development of Health Agriculture with Characteristics.

Health agriculture involves health agriculture, forestry, animal husbandry, and fishery with Chinese medicinal materials, green health food, and health care food planting and breeding as the main parts, which is a means for Hainan to win the battle against poverty in the new era, accelerate the implementation of the rural revitalization strategy, and advance the opening-up and development of modern agriculture.

**1. Optimize the industrial structure of health agriculture and promote the standardized and large-scale development of south China medicinal plants.** Focusing on the planting of south China medicinal plants and characteristic tropical crops, we will increase the support for the planting of South Medicine materials such as *Areca catechu*, *Alpinia oxyphylla*, and *Millettia speciosa* and make the industry chain of eaglewood better and longer. We will strengthen the construction of standardized production and GAP production base and improve the standardized production level of south China medicinal plants. We will formulate standardized production technology specifications for the planting industry of south China medicinal plants planting industry, integrating a series of key technologies such as fertilizer and water management, and pest control. We will strengthen the quality inspection of health agriculture products and establish a quality traceability system to ensure product quality. In addition, we will refine and optimize varieties of tropical crops and fruits, melons, and vegetables with the effect of green health food, highlight the orientation of nutrition and health, and comprehensively promote the structural adjustment of agricultural products. With agricultural scientific research institutes and leading enterprises as the main body, we will build standardized bases for characteristic fruits and tropical crops. Relying on deep-sea breeding and marine agriculture and animal husbandry integrating sea and land, we will develop characteristic marine health food and health care products industries. Furthermore, we will cultivate new business entities such as family farms, cooperatives, large professional households, and leading enterprises, promote emerging business models such as "enterprise + base," "enterprise + base + farmer household", and improve the level of organization. Moreover, we will accelerate the cultivation of leading health agriculture enterprises, and encourage land reclamation groups, key seed enterprises, and large health food processing and export enterprises to increase input in research and development, extend the links of processing logistics, marketing, promotion, and information services for health agriculture products, optimize the distribution and structure of the health agriculture industry chain, promote the development and utilization of high-value-added products, improve comprehensive benefits, and promote the quality and efficiency of health agriculture in Hainan.

**2. Promote the integrated development of "health + modern agriculture."** Relying on the project of "100 Towns and 1,000 Villages in Beautiful Hainan", we will integrate the development of health agriculture into the rural revitalization strategy by taking characteristic towns and beautiful villages as the carriers to build an integrated development system of "Massive Health + Agriculture". In addition, we will make use of characteristic germplasm resources such as the south China medicinal plants, dendrobium, black tea, and green tea and explore historical heritage, ethnic villages and towns, health preservation culture, folk customs, and other cultures, and develop unique forms and products of leisure agriculture to developed characteristic health leisure agriculture. Furthermore, we will integrate the development of health agriculture into the fight against poverty, support the establishment of production bases for health agriculture products with good economic returns and mature markets in poverty-stricken areas, and vigorously develop the planting, management, and processing of health agriculture products, increase the promotion and marketing support of health agriculture products in poverty-stricken areas and drive farmers in poverty-stricken areas to lift them out of poverty with the values added of the whole industrial chain of health agriculture.

## (III) Boosting the Health Product Manufacturing Industry.

The health product manufacturing industry covers the production and manufacturing of health products such as pharmaceuticals, medical devices, and rehabilitation aids, which is the technical support and material guarantee for the transformation and upgrading of Hainan's health industry to high quality and the middle and high end of the global value chain.

**1. Promote the high-level development of the pharmaceutical industry with an emphasis on biological drugs and preparations.** Based on the foundation of Hainan's pharmaceutical industry, we will make full use of the supportive policies of the Boao Lecheng International Medical Tourism Pilot Zone, and explore the research of clinical cutting-edge medical technologies of stem cell, develop new varieties of biological drugs, chemical drugs, high-quality TCM, medical devices, new auxiliary materials, and consumables. We will support the boost of south China medicinal plants industry and cultivate featured brands. Closely following the development strategy of "sea, land, and air", we will make full use of the "treasury" of marine resources and rely on the construction projects such as Sanya Deep-Sea Science and Technology City to accelerate the development of marine biological industries focusing on marine biological pharmaceuticals, marine biological products, marine biological health products, and the application of deep-sea gene technology. We will support the enterprises in Hainan to establish research and development centers and industrialization bases in cooperation with famous universities, research institutes, and technology transfer centers at home and abroad. In addition, we will guide and promote the restructuring and integration of the pharmaceutical enterprises in Hainan Province, increase the industry concentration ratio, and cultivate a number of leading enterprises in the pharmaceutical industry that are internationally competitive, master core technologies and products, and have strong industrial chain coverage and driving capacity. We will encourage pharmaceutical enterprises to evaluate generic drug consistency and implement the system of drug and medical device marketing license holders. And, we will give priority to the integrated development of domestic medical devices, flexible manufacturing, and AI, formulate special policies to encourage innovation, development and application demonstration, achievement transformation, and industry clustering of innovative domestic medical devices, and support the establishment of industrial alliances or consortiums to promote the integration and optimization of the whole industry chain.

**2. Expand the manufacturing industry chain of diversified health products.** Relying on the national sports industry bases and special training bases, we will develop and manufacture relevant products related to doping detection, sports nutrition, sports rehabilitation, physiological and biochemical monitoring, human movement analysis systems, athlete training analysis (decision-making assistance) system, human evaluation and testing system, etc. Relying on Hainan's brand sports events and characteristic fitness and leisure activities, we will develop the manufacturing of fitness and leisure sports products and support enterprises to focus on tropical mountain sports, island leisure, low-altitude flight, and other fields and design and manufacture customized and personalized high-end equipment. To meet the needs of elderly care services in Sanya and the Boao Lecheng International Medical Tourism Pilot Zone, we will introduce an intelligent and aging-friendly product manufacturing industry chain, develop high-quality household physical therapy, massage, and health care equipment, and intelligent elderly care monitoring equipment, and expand the supply of diversified intelligent rehabilitation, recuperation, and elderly care products. In addition, we will introduce high-level enterprises engaged in research, development, and manufacturing of intelligent health products to develop and manufacture health management wearable devices, portable health monitoring devices, self-service health detection devices, and other products based on the Internet of Things, cloud computing, big data, and other new-generation information technologies. Furthermore, we will introduce international leading-edge enterprises to develop high-end intelligent health product manufacturing such as intelligent health care robots and medical service robots. Moreover, we will promote the integrated development of health agriculture and health product manufacturing, rely on tropical animal and plant resources and marine biological resources to develop the manufacturing of characteristic health products, and develop diversified and high-value-added health care drugs, health care cosmetics, and nutritious health food.

# V. Major Projects

Focusing on promoting the in-depth integration of health and related fields and stimulating the vitality and innovation of new health operation types, new models, and new industries, we will accelerate to carry out a number of major projects with obvious supporting effects, strong leading and driving abilities, and great integration and clustering potential, and take them as an important means for the high-quality development of Hainan's health industry and drive the transformation and upgrading of traditional industries and the growth and development of emerging operation types. On this basis, we will establish a provincial library of major projects of the health industry, provide key support in project approval, factor guarantee, etc., and strengthen the leading and driving roles of major projects.

## (I) Boao Lecheng International Medical Tourism Pilot Zone Project.

**Functional Orientation:** We will build "one destination, one base, one area, and six centers", namely, an international medical tourism destination, a cutting-edge medical technology R&D and transformation base, and a national new national medical institution clustering area, a clinical medicine center with distinctive features and advanced technologies, a medical rehabilitation center with TCM characteristics, a health and physical examination center with international standards, and an exhibition window and follow-up treatment center of internationally renowned medical institutions in China, a clinical medical center for rare diseases, and an international medical exchange center.

**Development Goal:** By 2025, the Pilot Zone will have basically sound international health tourism and high-end medical service systems, complete infrastructure, and substantially improved international levels of operation management and service standards. An influential international health tourism destination and a world-renowned high-level cluster of health industry will be preliminarily built, with medical services and scientific research at the domestic leading and international leading levels and a brand effect. The industry scale will reach over CNY 50 billion.

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| **Column 1 Major Projects** |
| **1. National Health Tourism Demonstration Base in Boao Lecheng International Medical Tourism Pilot Zone.** We will strengthen the construction of tourism service infrastructure in the Pilot Zone and its surrounding areas and improve supporting facilities for international tourism. We will introduce a number of leading medical tourism agencies and support airlines, travel agencies, and other companies to strengthen the development of medical health and health preservation products and the design of tourism routes. We will develop third-party specialized medical intermediary service institutions and specialized medical tourism guidance platforms.  **2. Project of Introduction and Cultivation of Internationally Advanced Medical Institutions.** We will introduce and cultivate a number of medical institutions with advanced technology and strong market appeal, establish many high-end health management institutions, TCM health preservation and rehabilitation demonstration hospitals, and medical tourism healthcare centers, and introduce and cultivate third-party medical testing institutions at the international level. And, we will guide overseas pharmaceutical enterprises to set up after-sales service centers in Hainan.  **3. National Clustering Project of Medical and Health Institutions.** We will jointly set up a tropical disease research center, a pharmaceutical and biological product research and verification center, an international medical exchange and exhibition center, and a rare disease center. We will pilot the construction and development of a national public medical platform, and explore ways to support the settlement of national medical institutions by holding for-profit international medical departments, specialized departments, and the Internet + Boao Hospital.  **4. National Medical Education and Scientific Research Exchange Base.** We will set up medical colleges jointly with world-renowned medical schools, and encourage and support key medical schools, research institutes, state key laboratories, and well-known enterprises at home and abroad to set up branches in the Pilot Zone. Relying on the Boao Super Hospital, we will build a national clinical medicine innovation center and a national advanced technology & clinical medicine research center, combine closely with clinical practice to build a number of national and provincial key laboratories, and set up academician and post-doctoral work stations. We will incorporate qualified medical institutions certified by international medical and health institutions in the Pilot Zone into the national standardized training base for resident physicians, and encourage social forces to join hands with medical institutions to invest in establishing clinical trial institutions.  **5. High-level Brand Promotion Project in Pilot Zone.** We will promote the sound operation of a number of brand projects, make innovations to the management modes, accelerate the promotion of popularity, and launch a number of quality service projects and a series of products centering on international medical tourism.  **6. China-Israel Hainan International Rehabilitation Medicine Center Project.** In the Pilot Zone, we will build a modern rehabilitation medicine center with full functions and advanced technologies and take advantage of Israel's advantages in the development of rehabilitation equipment to build a rehabilitation medicine technology transformation (research and development) center and a rehabilitation medicine education training center.  **7. Reproductive Medicine Service Centre Project.** Relying on the resources and environment foundation of Hainan and the characteristic advantages of cutting-edge reproductive medicine services in the Pilot Zone, we will build a high-end and standardized full industry chain of "pregnancy, delivery, and nursing", develop diversified products and services such as assisted reproduction, test-tube babies, reproductive therapy, recuperation with south China medicinal plants and Li herbs, and promote the construction of the reproductive medicine service system in Hainan Province.  **8. International Platform for Open Cooperation in Health Industry.** Relying on the resources of Boao Forum for Asia, we will further improve and enrich international exchanges and cooperation at multiple levels and in multiple fields, promote the development of health headquarters, encourage multinational enterprises and large domestic enterprise groups in the health field to set up their international headquarters and regional headquarters in Hainan. We will support holding international medical device and drug fairs and exhibitions in key areas of the health industry and build a provincial health product exhibition and trade platform. We will support holding high-level forums and achievement trade fairs on technologies, industries, and capital related to the creation and development of new drugs. We will hold the Boao Health Forum once a year and the Hainan Health Industry Expo regularly.  **9. Enhanced Medical and Health Cooperation with Taiwan, Hong Kong, and Macao.** We will introduce famous medical institutions from Taiwan, Hong Kong, and Macao to establish branches or specialized hospitals in Hainan. We will improve medical services in Hainan and attract more foreign medical tourists, strengthen cooperation in the research and development of rehabilitation and nursing equipment, establish a business cooperation mechanism between Hainan and medical enterprises from Taiwan, Hong Kong, and Macao, and strengthen cooperation in medical parks. |

## (II) Haikou Biopharmaceutical and Translational Medicine Base Project.

**Functional Orientation:** Relying on the high-level health service layout in four areas of Haikou, namely, West Coast Area, Mission Hills Area, Jiangdong Area, and Central Urban Area, we will bring into play the advantages of the high-tech industrial cluster of the Haikou High-Tech Zone, vigorously carry out the clinical transformation, application and innovation of health science and technology research achievements, build a national translational medicine base, attract high-end talents in the Asia-Pacific region, and form an important growth pole for health science and technology innovation.

**Development Goal:** By 2025, a national translational medicine base featuring the integrated development of production, learning, research, and application will be basically established, a number of breakthrough achievements will be made in key areas such as cutting-edge medical and life science and technology innovation, solutions for difficult and serious problems, major new drug development, and new diagnosis and treatment technologies, providing strong support for the development of the health industry in Hainan Province and China. The output value of the pharmaceutical industry will be about CNY 44 billion.

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| **Column 2 Major Projects** |
| **1. National New Drug Translation Base Project.** Hainan Province, the Ministry of Science and Technology, and the National Health Commission jointly establish the Haikou National New Drug Translation Base to promote the transfer and translation of achievements in the major national science and technology projects of creation and manufacturing of major new drugs as the pilot work and accelerate the organization and implementation of major projects. Grade 3 medical institutions and pilot areas in Hainan will be included in the scope of the National New Drug Translation Base.  **2. Clinical Application and Translation Platform Project.** We will focus on the transfer, translation, and clinical application of innovative drugs and medical devices and equipment that are urgently needed in China, and build the mechanism of "integration of medical institutions, research institutes, and enterprises" and "integration of medicine and engineering", rely on well-known medical schools and powerful research and development institutions at home and abroad to establish in-depth cooperation with large-scale pharmaceutical enterprises at home and abroad, establish multi-institution and interdisciplinary research centers, promote the integrated development of clinical treatment and medicine, shorten the time from research and development to clinical use of drugs, and enhance the pertinence of treatment and industrial competitiveness.  **3. Hainan Pharmaceutical Research and Development Science Park Project.** Relying on the Haikou National High-Tech Zone, we will establish a public technology platform integrating drug safety evaluation and drug research and development, which is advanced nationwide and in line with the international standards.  **4. Research, Development and Translation Project of Marine Biological Medicine Industry.** We will support the intersectoral links between the Hainan Marine Biological Medicine Research Institute, the Marine Medicine Engineering Technology Research Center, and the Key Laboratory of Biotechnology, and accelerate the research, development, and translation of the characteristic marine biological medicine resources in Hainan.  **5. Pharmaceutical Industry Cluster Project in Medicine Valley Industrial Park.** We will focus on pharmaceutical manufacturing, research, and development, and drug distribution and storage, introduce and cultivate leading pharmaceutical enterprises and pharmaceutical research and development institutions such as the Hainan Institute of Medicine and the Hainan Hi-Tech Pharmaceutical R&D Platform, and enhance the competitiveness of the core area of the "Haikou Medicine Valley".  **6. Medical Health Industry Cluster Project in Mei'an New Medicine Valley.** We will focus on the development of health and health preservation, the combination of medical care and health preservation, pharmaceuticals, medical devices, and special functional foods, and actively connect and introduce comprehensive service institutions of high-level pharmaceutical and medical device manufacturing, pharmaceutical research and development, and pharmaceutical industry to improve the cluster development level. |

## (III) Sanya Health Tourism Demonstration Base Project.

**Functional Orientation:** Focusing on the construction of the Sanya National Health Tourism Demonstration Base, we will accelerate the development of health tourism with TCM characteristics and build a cluster of health tourism with TCM characteristics and a TCM service trade base with global influence to lead the development of national TCM health tourism services.

**Development Goal:** By 2025, remarkable achievements will be made in the construction of a national health tourism demonstration base, continue to improve the service system for TCM health tourism, and we will take the lead in establishing a certification system for TCM health tourism in China, establish industry standards and standards for TCM health tourism under the pilot free trade zone system, basically formed a system of international service facilities and service standards to support the development of TCM health tourism, doubled the number of tourists of TCM health tourism at home and abroad on the basis of 2018, and built five international TCM health tourism characteristic bases by relying on advantageous medical institutions of TCM, and established a famous brand of health tourism service in Hainan.

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| **Column 3 Major Projects** |
| **1. Comprehensive Medical Service Capacity Improvement Project.** We will accelerate the Reconstruction and Expansion Project of Sanya Hospital of Traditional Chinese Medicine, support the reconstruction and expansion of the Hainan Third People's Hospital at its original site to build a treatment center for difficult and severe cases in southern Hainan, and improve the medical technology and management level of the Sanya People's Hospital to build the Sanya People's Hospital into a regional medical center in southern Hainan  **2. High-end Medical Service Development Project.** We will actively introduce high-end medical institutions at home and abroad to settle in Sanya, create high-end medical technology service institutions that are in line with the international standards, upgrade the medical technology level in Sanya, accelerate the development of high-end medical services and internationalization in Sanya, accelerate the construction of the medical sector of the Sanya Modern Service Industry Park and the Banling Hot Spring Medical Industry Park.  **3. Construction of International TCM Health Tourism Destination.** We will explore the normalization, standardization, and specialization of TCM service trade and build a National Demonstration Base for TCM Service Trade based on Sanya Hospital of Traditional Chinese Medicine. Relying on Sanya Hospital of Traditional Chinese Medicine, we will consolidate the cooperation with Central Asia and Russia in TCM health tourism services and strive to include the Almaty Center of Traditional Chinese Medicine under Sanya Hospital of Traditional Chinese Medicine into the list of overseas centers for medical and health cooperation under the Belt and Road Initiative. And, we will actively expand the cooperation with Eastern European and Western Asian countries in the field of TCM service trade, and carry out a series of projects including TCM training and scientific research on the basis of medical services.  **4. Smart Health City Creation Project.** We will introduce the Institute of Medical Biology, the Chinese Academy of Medical Sciences, the China National Engineering Research Center for Human Settlements, and other enterprises, schools, and research institutes and take the development of healthy buildings and healthy living standards in China as the means to build a space integrating production, living and ecology and a comprehensive demonstration area of digital health ecology city suitable for living, business, and tourism and realize the simultaneous planning, construction and operation of the digital world and the real world. We will take the lead in starting a new era of digital health city operation and comprehensive services for healthy living in China and build Sanya into an international pilot experience destination for application and demonstration of digital health city.  **5. High-end TCM Health Preservation and Service Brand Project.** We will accelerate the cooperation with renowned TCM research institutions and medical and health care institutions, make innovations on the service modes of medical institutions of TCM, and accelerate the cooperation between Sanya and the Guang'anmen Hospital of China Academy of Chinese Medical Sciences to develop the high-end TCM Health Preservation and Rehabilitation hospital project. We will develop tourism products with TCM characteristics, develop tourism routes for TCM health preservation and health care and build a number of resorts and theme hotels with TCM characteristics. We will focus on the development and construction of the Banling Hot Spring Medical and Health Industrial Park in Jiyang District to create a "health preservation paradise for Chinese and foreign tourists".  **6. International Development Project of TCM Health Tourism.** We will establish and improve the medical and health service system in line with international standards and guide medical institutions to pass the certification of international medical standards, ISO quality management system, etc. We will strengthen the development of the medical tourism service system, improve the service quality, strengthen the promotion of medical tourism, improve the reputation of medical tourism services, and set up a high-end brand image. We will implement the Belt and Road Initiative overseas TCM center project and encourage excellent TCM enterprises and medical institutions to cooperate to set up TCM service institutions overseas.  **7. Research, Development, and Promotion Project of Characteristic Products of TCM.** On the basis of the medical services of TCM and planting, processing, and scientific research of Chinese medicine in the Greater Sanya Region, we will support the research, development, and production of TCM health care food, health products, audio-visual cultural products of TCM health care, and creative TCM products for the domestic and international consumer markets and promote the development of related products in series. |

## (IV) Project of Industry Standardization and Scale Production of South China Medicinal Plants.

**Functional Orientation:** Relying on Hainan's unique tropical resources, environment, and cultural characteristics, we will build a south China medicinal plants industry system covering national medical and health services of TCM, planting and breeding of medicinal animals and plants, and manufacturing of health food and health care products with ingredients used both as food and medicine, promote the upgrading of the industry chain from traditional agricultural production to the middle and high-end value chain featuring scale, brand and high added value, and build a world-renowned south China medicinal plants industry cluster.

**Development Goal:** By 2025, the standardization level of the planting of south China medicinal plants will be significantly improved, the south China medicinal plants, Li herbs, and aromatics will be taken as the breakthroughs to research and develop TCM health preservation and health care products. We will develop a large variety of south China medicinal plants and medicinal aromatic plants with an output of CNY 70 billion, a large planting scale, a long industry chain, and strong technical support, and cultivate both medicinal aromatic products used as both medicine and aromatics, and health care products used as both medicine and food, and established the brands of "Aromatic Island" and "Healthy Island" of TCM in Hainan.

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| **Column 4 Major Projects** |
| **1. Improved Seed and Seedling Breeding Base Project.** Relying on the construction of the open technological development platform and the supporting policy for open development of breeding seeds in South China, we will build a number of standardized, large-scale, and modernized breeding bases for improved seeds and seedlings in the areas with advantages.  **2. Gene Resource Bank of Tropical Medicinal Plants.** We will strengthen cooperation with the Chinese Academy of Medical Sciences and the National Medicinal Plant Germplasm Bank to accelerate the construction of a complete protection system for TCM germplasm resources, support the research and innovation of tropical medicinal plants, and ensure the safety of the medicinal plant resources of the state.  **3. Eaglewood Industry System Project.** We will focus on making breakthroughs in key scientific and technological issues such as large-scale breeding, improved seed breeding, planting, aroma-producing, processing, and quality control, tackle 5-8 common key technologies, and select 2-3 high-yield and high-quality new varieties or improved seeds, increase the yield per plant by 1-2 times, and develop 15-20 greater health products of eaglewood. We will establish the China (Hainan) International Eaglewood Trading Service Platform with an annual trading volume of over CNY 5 billion.  **4. Standardized Production Base of south China medicinal plants.** We will vigorously promote the standardized planting of genuine medicinal materials such, large quantities of medicinal materials, rare and characteristic medicinal materials, and Chinese medicinal materials needed for key varieties of Chinese patent medicines, such as *Areca catechu*, *Alpinia oxyphylla*, *Curcuma zedoary*, *Nauclea officinalis*, *Pogostemon cablin*, *Alpinia officinarum*, *Aplinia katsumadai*, and *Piper nigrum*. We will develop health care products of Li herbs and south China medicinal plants and promote the combination of said medicines with existing mature products (such as health care food and cosmetics).  **5. National south China medicinal plants Engineering Technology Research Center.** We will establish a south China medicinal plants gene germplasm bank and a south China medicinal plants research and development platform, explore setting up the south China medicinal plants research and development center with the Chinese Academy of Medical Sciences, and make breakthroughs in the development of TCM health care products on the basis of south China medicinal plants, Li herbs and aromatics.  **6. Provincial Dynamic Monitoring and Information Service System of TCM Resources.**  **7. Baoting South China Medicinal Plants, Li Herbs, and Medicinal Aromatic Plants Improvement Project.** By 2020, we will vigorously build 3 standardized production demonstration parks around *Alpinia oxyphylla*, *Areca catechu*, and *Millettia speciosa*, expand the planting area of *Fructus amomi*, *Alpinia oxyphylla*, *Morinda officinalis*, and other medicinal materials of south China medicinal plants, and create the economic brand of south China medicinal plants under the forest. |

## (V) Climatotherapy and Special Treatment Center Project.

**Functional Orientation:** We will fully rely on Hainan's advantages in ecology, climate, forest, hot spring, national medicine, and food resources and learn from the international leading development model of climatotherapy and special treatment with natural elements to establish a number of high-level climatotherapy and special treatment centers with global influence to meet the needs of children, the elderly and occupational groups for asthma and respiratory treatment and nursing, domestic markets, and other markets such as Russia and Eastern Europe.

**Development Goal:** By 2025, 2-3 climatotherapy centers will be completed with Haikou and Sanya as the core areas. A number of special treatment centers with advanced modes, rich functions, and leading service levels will be built in areas rich in characteristic resources such as hot springs, sunlight, and rainforests.

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| **Column 5 Major Projects** |
| **1. Climatotherapy Center Project.** Relying on the unique climate resources of Hainan, we will introduce international leading specialized service institutions, develop and utilize elements such as air, sunlight, seawater, and soil to naturally treat and recuperate related diseases and sub-health conditions, build a number of medium and high-end service clusters for people with such requirements of rehabilitation, post-operation recuperation, and sports rehabilitation and fitness. We will support the research and innovation on climatotherapy mechanisms, key technologies, appropriate equipment, and service model standards.  **2. Children's Upper Respiratory Allergy Treatment & Recuperation Center.** We will strengthen cooperation with the Shanghai Children's Medical Center and other institutions and give full play to the advantages of Hainan in air convalescence with high negative oxygen ions to build integrated treatment, health preservation and rehabilitation institutions for children with allergic asthma, upper respiratory infection, tracheitis, and pertussis.  **3. Nanping Medical Health Industrial Park.** Relying on regional tropical climate resources and agricultural reclamation land advantages, we will build an industry system combining rehabilitation from chronic diseases and recuperation with climatotherapy as the core, featuring health science and technology and health preservation culture of south China medicinal plants, promote the construction of an international ecological health care base featuring climatotherapy to provide high-quality, high-end health, convalescence, and elderly care services to sub-healthy people and the elderly at home and abroad. At the same time, we will set up a research and development demonstration zone for south China medicinal plants and marine biological medicine, a pilot zone for medical and health tourism, and a culture and education center for TCM and traditional medicine and establish a special medical and health preservation complex with integrated development.  **4. Breathing Town.** We will select appropriate locations to cater to the international and domestic groups with chronic diseases such as respiratory diseases, innovate in high-quality, continuous, and standardized service modes, and construct a number of breathing towns with health preservation and rehabilitation characteristics.  **5. Rehabilitation and Recuperation Center for Patients with Chronic Obstructive Pulmonary Disease (COPD).** Giving fully play to Hainan's advantages such as no low temperature in four seasons, a high temperature in Winter, and clean and moisture air, we will rely on the Greater Sanya Tourism Economic Circle to construct a number of treatment, rehabilitation, and recuperation centers for patients with the COPD, innovate the mode of diversified participation, and build a high-end brand that radiates across China.  **6. Special Treatment Centers.** Relying on the resources of hot springs, sunlight, and rainforests, we will build a number of special treatment centers and create a number of famous brands featuring functional hot springs, sunlight recuperation, sand therapy, and negative oxygen ion recuperation. |

## (VI) Wellness Characteristic Town Construction Project Oriented at Rehabilitation and Recuperation Service Industry.

**Functional Orientation:** With the goal of improving the rural ecological environment, ensuring the health of the residents in terms of physiology, psychology, morality, and social adaptability, and cultivating a healthy lifestyle, we will highlight the environmental and climate advantages and characteristic resources of Hainan for the development of the health care industry based on the Project of 100 Towns and 1,000 Villages, the "trinity" of industry, culture, and tourism, and the integrated development of production, life, and ecology to build a number of characteristic towns supported by rehabilitation and recuperation.

**Development Goal:** We will strive to build a number of characteristic health preservation and rehabilitation health towns with distinctive industrial characteristics, rich cultural heritage, beautiful ecological environments, great vigor, and obvious demonstration effect in Hainan Province by 2025.

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| **Column 6 Major Projects** |
| **1. Health Town Construction Standardization Project.** We will introduce a state-level architectural design and research institute to construct the evaluation standards and management standards for Hainan's health towns according to the climate features and resources of Hainan, and guide the construction of various health towns with health preservation and rehabilitation characteristics.  **2. Eaglewood Towns.** We will guide and support the construction of high-standard eaglewood health expo parks or characteristic eaglewood towns in cities and counties such as Haikou, Wanning, and Chengmai, and integrate eaglewood culture, science, and technology, health preservation, products, and tourism, and drive the development of Hainan eaglewood sightseeing tours and eaglewood health preservation.  **3. Health Preservation and Care Towns.** Based on the overall layout of health tourism development in Hainan, we will mainly develop and construct a number of health preservation and health care towns: Chengmai Slow Life International Health Care Community, Banling Life Health and Leisure Town, Xinglong Health and Health Preservation Town, Lanyang Hot Spring Health Care and Leisure Town, Nanping Hot Spring Health Care Town, Bawang Ridge Forest-based Rehabilitation, Health Care and Leisure Town, Wenchang Space Health Preservation and Rehabilitation Town, and Tunchang Xinxing Health Preservation and Rehabilitation Town.  **4. Sports and Leisure Towns.** We will promote the development of Haikou Mission Hills Sports and Health Town, Sanya Water Sports Complex and Water Sports Town, Chengmai Intellectual Sports Town, and Wanning Surf Town, give full play to the advantages of folk resources in Baoting, Changjiang, Qiongzhong, Ledong, and other areas inhabited by ethnic minorities, and cultivate and develop folk sports tourism towns, folk sports villages, and folk sports post stations with folk customs.  **5. Haitang Bay · Shanggonggu TCM Health Town.** We will accelerate the construction of the commercial street of time-honored TCM brands, the sports medicine and rehabilitation center, and characteristic health care homestay inn projects, give full play to the advantages of natural scenery and traffic in Haitang Bay, and gather time-honored TCM enterprises and institutions to expand the whole-process service system for professional athletes and people for the recovery of physical and sports functions at home and abroad and build a health complex integrating TCM, rehabilitation, recuperation, leisure, and sports.  **6. Shizi Ridge Health Town.** We will mainly build towns with medical health preservation and ecological restoration characteristics and establish characteristic health preservation and rehabilitation institutions such as hemodialysis centers, medical elderly care centers, international hospitals, maternity centers, medical training centers, and medical rehabilitation centers.  **7. Hot Spring Resort Towns.** In line with international standards, with hot spring leisure and vacation as the core, we will develop supporting products such as TCM rehabilitation and recuperation, health-preservation sports, cosmetology, and physical beauty, build six high-quality hot spring tourism industry clusters, including Mission Hills in Haikou, Nantian in Sanya, Lanyang in Danzhou, Guantang in Qionghai, Xinglong in Wanning, and Qixian Ridge in Baoting, support developing 10 hot spring tourist resorts, including Guanxin in Wenchang, Jianling Ridge in Wanning, Malong in Dongfang, Jiulegong in Chengmai, Jiuwentang in Dingan, Qingao in Tunchang, Gaofeng in Lingshui, Shangan in Qiongzhong, Bawang Ridge in Changjiang, and Munian in Baisha, and cultivate and develop a number of hot spring brands with international competitiveness.  **8. Healthy Functional Green Plant Town.** By means of the innovation of standards for the national healthy residence and functional green plant system, we will fully give play to the green plant resources of Hainan, cooperate with research institutes studying plant healing and convalescence functions (such as Tsinghua University, Harbin Institute of Technology, and forestry universities in China) to establish research and development bases for plant systems with positive health functions (air purification, psychotherapy, landscaping, etc.), and establish healthy functional plant industrial parks for supporting services of relevant seed and seedling cultivation, plant propagation, and engineering products. Focusing on three major innovations, namely, the hanging pollen-free flower system, the green plant wall system, and the smart pet plant machine, we will build a world-leading scientific innovation and industrial cluster zone for the healthy functional plant system and establish a characteristic town leading the research, development, and cultivation of healthy functional plants in China. |

## (VII) National Sports Health Demonstration Zone Project.

**Functional Orientation:** Relying on Hainan's rich and diverse resources such as seas, islands, mountains, rivers, forests, and cultures, we will give full play to its regional advantages of green islands, mountains and seas, warm seasons, and fine air, and focus on sports rehabilitation, sports convalescence, and other characteristic fields, implement the synchronous development of land, sea, and air, develop the sports, leisure, and fitness industry integrating health, sports, and tourism, and build a national sports tourism demonstration zone.

**Development Goal:** By 2025, the integration of health and sports, leisure, and fitness will be significantly improved, a number of fitness and leisure venues with full functions will be built, and a number of public fitness and leisure activities and major brand events with local characteristics will be created, a number of key sports and cultural tourism projects and leisure sports towns with the theme of fitness and leisure will be built, the sports, leisure, and fitness industry will reach CNY 40 billion, and a national sports tourism demonstration zone and a world-renowned first-choice destination for fitness and leisure tourism will be established.

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| **Column 7 Major Projects** |
| **1. National Sports Rehabilitation Base.** By taking advantage of the events such as the Tour of Hainan and the Round Hainan Regatta and the construction of the national Olympic sports winter training base, we will promote the development of sports rehabilitation and physical therapy of TCM, and build national sports rehabilitation bases in Haikou, Greater Sanya, and Wuzhishan.  **2. Sports Training Base Project.** We will continuously strengthen the brand of "Sunny Hainan, Paradise for Winter Training" and promote the development of the popular sports training industry. We will focus on building a number of sports training bases and improving and upgrading the construction of relevant facilities such as the China Football (South) Training Base, the National Surf Training Base, the National Sailing and Windsurfing Training Base, the National Beach Volleyball Training Base, and the Wuzhishan National Comprehensive Training Base.  **3. High-quality Sports, Leisure, and Fitness Event Project.** We will create special festival brands rich in health culture and health connotations and develop sports, leisure, and health-related sports events with a health element.  **4. Demonstration Points of Smart Sports Tourism.** We will implement the project "Pilot and Demonstration of Smart Sports Tourism Scenic Area (Spots)" to promote the construction of smart sports tourism demonstration cities.  **5. Haikou Sports Tourism Industry Cluster.** Relying on the geographical advantage of Haikou connecting the Pearl River Delta and the Guangdong-Hong Kong-Macao Greater Bay Area, we will bring the strategic advantage of Haikou as the strategic fulcrum city of the Belt and Road Initiative and the strategic advantage of the central city of the Beibu Gulf city cluster, strengthen the demonstration and leading role of the provincial capital in driving innovation, and build Haikou into a sports tourism industry cluster with strong international competitiveness and influence based on sports events tourism, sports leisure tourism, sports culture tourism, sports rehabilitation tourism, etc.  **6. Sanya Sports Tourism Industry Cluster.** We will give full play to the advantages of the typical case of Sanya being selected as a national sports industry contact point, strengthen the leading and demonstrative role of the sports industry in Sanya, and integrate the advantageous resources of sports tourism in Sanya to build Sanya into a highland for the development of Hainan's sports leisure tourism industry, a leading city for international high-end sports events, and the first choice for international water sports.  **7. Community Health Promotion Service Center Project.** In line with the requirements of "exploring the establishment of community health promotion service centers" in the National Fitness Program 2016-2020 of the new cycle, we will set up community health promotion service centers in the subdistricts of Sanya, provide community residents with health, culture, education, elderly care, disabled persons' federation, tourism, publicity, and healthy living services, and provide a shared healthy space and environment as well as a digital, precise and intelligent service platform, and focus on strengthening the capacity of community services for sports, nutrition, psychological and environmental health interventions and building the capacity to ensure the health of the whole people to promote active health. |

## (VIII) Basic Medical Health Service Consolidation Project.

**Functional Orientation:** We will offer priority to the people's health, strengthen the responsibility of the government, further the reform of the medical and health system, increase financial input, optimize the allocation of resources, and make up for the shortcomings of the grassroots, further promote the balanced development of medical and health services in urban and rural areas, and provide a solid health guarantee for winning the battle against poverty and promoting the development of "Healthy Hainan".

**Development Goal:** By 2025, an all-round and full-cycle health service system will be basically established, and grass-roots medical and health institutions will have a substantially higher standard and service capacity to better meet the growing health needs of the people, and the goal of basic medical and health services for all will be fully met.

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| **Column 8 Major Projects** |
| **1. Infrastructure Construction Project.** This project involves the construction of township/town health centers, outpatient clinics, other hospitals, community health service centers (stations), and administrative village clinics and we will promote the construction, reconstruction, expansion, decoration, and renovation of relevant projects.  **2. Medical Device Configuration Project.** In accordance with the principles of filling gaps and making up shortcomings, we will configure medical devices by category and improve and upgrade the instruments, devices, and working facilities of grassroots medical and health institutions.  **3. Staffing Optimization Project.** We will improve the staffing of grassroots medical and health institutions and optimize the staffing structure of medical institutions at all levels.  **4. Basic Medical and Health Service Informatization Project.** The grassroots medical and health institutions of the whole province use the information system of the grassroots medical and health institutions in a unified way, and we will connect the information systems of professional public health services (planned immunization, mental health, and maternal and child health), TCM health services, and medical security fund services in the information systems of grassroots medical and health institutions. We will promote the full coverage of telemedicine and improve the operating mechanism and talent team building of telemedicine.  **5. Institution Operation Support Project.** We will implement the "Two Allowed" policies, namely, "medical and health institutions are allowed to break through the current salary regulation levels of public institutions, and medical service income is allowed to be deducted by the cost and used mainly for personnel awards after various funds are withdrawn according to regulations", push forward the reform of the operating mechanism of grassroots medical and health institutions, and accelerate the exploration and implementation of the close-knit integrated county-village management mode or the medical group mode within the county.  **6. Military-Civilian Integration for Building National Maritime Emergency Medical Rescue Base (Hainan):** Through the construction of the maritime emergency medical rescue base, we will build a strategic fulcrum for health emergency support in the South China Sea, gradually build a medical rescue system for land, sea, and air, and further enhance the deep-sea and far-sea health emergency rescue capacity.  **7. National Nuclear Radiation Emergency Medical Rescue Base (Hainan):** In accordance with the principle of emergency handling of nuclear radiation accidents, we will be always people-oriented, establish and improve a nuclear and radiation emergency medical rescue base for both normal and emergency purposes in accordance with the standards, and effectively improve the nuclear radiation health emergency level and handling capacity in case of emergencies.  **8. "One County with One Hospital" Project.** We will increase the financial input according to the national standards for the capacity improvement of county-level hospitals. According to the requirements for standardization of county-level hospitals, at least one provincial-level hospital will be built in each city or county, and the referral rate outside the county will be reduced to less than 10%.  **9. Key Clinical Specialty Projects.** By 2020, 70 key clinical specialty projects will be established each year, with at least 2-3 key clinical specialty projects in each city or county.  **10. National Regional Medical Center Project.** According to the unified deployment and standard requirements of the national regional medical centers, we will increase financial input and support the Hainan General Hospital to build itself into a national regional medical center and become the provincial center for treating difficult and severe cases.  **11. Project of Five Types of Professional First Aid Centers.** We will strongly support the establishment and development of chest pain centers, stroke centers, trauma centers, treatment centers for critically ill pregnant women, and treatment centers for critically ill children and newborns.  **12. Smart Hospital Project.** According to the requirement of hospital informatization with electronic medical records as the core, we will strengthen the construction of hospital informatization and build hospitals above Grade 2 into smart hospitals. |

## (IX) Talent Training Base Project.

**Functional Orientation:** We will adhere to the good interaction between the talent chain, industry chain, and innovation chain, pay equal attention to training and introduction, and strengthen the support for talents in the health industry.

**Development Goal:** We will introduce a group of high-level leading talents with domestic influence, and strive to establish a high-level team, bring a high-tech project, and rise a new industry by introducing a high-level talent. We will build a talent training system for the health industry that coordinates higher education, vocational education, and adult education, and build a talent output base for the health industry with a certain influence.

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| **Column 9 Major Projects** |
| **1. Talent Introduction Projects.** We will steadily promote the talent attraction strategy of "One Million Talents Entering Hainan", and regularly implement the talent attraction project of "100 talents" to increase the efforts to attract international talents, continue to implement the projects of "Good Presidents, Good Doctors", "100 Obstetricians and Gynaecologists, 100 Pediatricians", and "Team of 100 Experts from Hospitals in Beijing", carry out in-depth activities such as "Academicians' Visit to Hainan" and "Academicians' and Experts' Qionghai Survey", and explore and implement the "Silver-hair Elite Gathering Program", "Famous Doctor Training Program", "Chief Expert" System, and "Famous Doctors Gathering in Hainan" Program, so as to gather a large number of excellent medical and health talents for the development of Hainan's health industry.  **2. High-end Talent Training Bases.** We will encourage renowned medical universities and colleges at home and abroad to set up branches in Hainan, support relevant universities and colleges to set up health industry-related majors, cultivate and build key laboratories for the health industry, develop tropical medicine, tourism medicine, and other special disciplines in line with the development of Hainan's medical and health industry, and build a number of research and application-oriented talent training bases for the health industry. We will accelerate the development of Hainan Health Vocational College, expand the scope of cooperation in overseas talent training, intensify cooperation with high-level health training institutions in Singapore, Japan, and other countries, and improve the levels of basic medical teams.  **3. Skilled Talent Training Bases.** We will increase support for health service majors in colleges and higher vocational schools, and promote the "order-based training" model by supporting cooperation between schools and enterprises, and focus on building training bases for technical and skilled talents in the fields of health management, health preservation, TCM health care, rehabilitation nursing, and health tourism.  **4. Health Industry Training Bases.** Relying on vocational schools and adult (community) colleges, we will build a number of training bases to carry out on-the-job training and continuing education for practitioners in the health industry. |

# VI. Supports and Guarantees

In accordance with the new requirements and new arrangements of the CPC Central Committee and the State Council for the reform and opening up of the Hainan Special Economic Zone, we will step up reform and innovation, and establish a health industry management system and operating mechanism in line with the requirements of the Pilot Free Trade Zone.

## (I) Fully Implementing "National Nine Positive Stimuli" and Further Intensifying the Reform and Innovation of Pilot Zone.

On the basis of fully implementing the policy of "National Nine Positive Stimuli", we will strive for state support and authorization to the Boao Lecheng International Medical Tourism Pilot Zone, and strengthen supervision and inspection during and after the process, provide a more open policy environment for the development of the Pilot Zone into a world-class medical tourism destination. We will strengthen supervision and management over the use of clinically urgent imported medical devices in the Pilot Zone and explore ways to improve the administration of the import and use of drugs and vaccines. In addition, we will encourage the development of stem cell and other clinical cutting-edge medical technology research projects and the transfer and transformation of achievements, and explore the sale and use of self-made Chinese medicine preparations in domestic medical institutions in the Pilot Zone. We will build a high-level and high-quality management platform for the tracing of licensed drugs and medical devices in China, and formulate measures to facilitate the hosting of international medical conferences and the admission of international health organizations, so as to expand the international influence of the Pilot Zone. Furthermore, we will study and formulate convenience policies to support overseas patients to visit the Pilot Zone for medical treatment and facilitate the entry of foreign citizens for long-term medical treatment with visas. Moreover, we will further implement policies related to the tariff, corporate income tax, and value-added tax reduction and exemption in the Pilot Zone, support public medical and health institutions in the zone to explore more competitive systems of service charge, talent introduction, and remuneration, improve the administrative system of the Pilot Zone and improve the efficiency of management and operation, support the Pilot Zone to explore more flexible personnel and remuneration systems and personnel management modes, improve the fiscal system and development and construction modes of the Pilot Zone, and expand flexible and diverse financing modes to ensure investment in development and construction.

## (II) Deepening the Reform of Streamlining Administration, Delegating Power, Strengthening Regulation and Improving Service and Remove Institutional and Mechanism Obstacles.

Centering on system innovation, we will accelerate the pace to build a legal, international, and convenient medical service environment and a fair, unified, and efficient business environment for the health industry. We will explore and improve the management of establishment approval and practice registration, support general practitioners with general practitioners' qualifications to run general practice clinics, and support and encourage professional and technical personnel of medical and health institutions to engage in innovation and entrepreneurship in a part-time, on-the-job or off-job manner. In addition, we will improve the system for examination and approval of medical institutions run by social forces, improve the medical technology registration system, explore and innovate the mode of management of Class B large medical devices in medical institutions run by social forces, and encourage the development of a shared medical service model. We will improve the medical insurance settlement policies for medical institutions run by social forces, encourage and guide medical institutions to participate in international certifications such as JCI, and explore gradually relaxing the restriction on the ratio of foreign investment shares of life insurance companies. Furthermore, we will issue measures to facilitate the registration of new enterprises such as Internet-based medical enterprises and doctor groups to support the development of new operation types in the medical and health care industry. We will study and promote the reform of the drug management system, study and issue relevant measures for the inclusion of major special new drugs into the provincial medical insurance catalogue, support medical institutions to provide genetic testing services, and explore promoting the inclusion of gene testing projects with precise clinical needs and high cost-effectiveness in the medical insurance payment list. Moreover, we will pilot to explore more convenient certification and approval procedures for south China medicinal plants, Li herbs, special health care products, and health food, and explore simplifying the registration and approval process for applying to launch classic famous compound preparations of TCM.

## (III) Implementing Innovation-driven Development and Enhancing the Driving Force of Industry Development.

We will actively promote the coordinated development of enterprises, schools, research institutes, and hospitals, encourage medical institutions to cooperate with health industrial parks and enterprises to establish a supply-demand connection mechanism, issue supportive policies for the transformation and application of new technologies, and establish a virtuous circle of "demonstration & application-clinical evaluation-technological innovation-radiation & promotion." In addition, we will explore establishing a drug exchange in Hainan. For the health technology innovation with clear market demand, we will attract various social investments by means of risk compensation, post-subsidy, and venture capital investment. We will practice the policies of deduction of research and development fees and tax incentives for venture capital enterprises, individual angel investors in the seed stage, and technology-based enterprises at the start-up stage. We will make efforts to strengthen intellectual property protection, protect the achievements of health industry innovation, and create a fair, just, and open, inclusive, loose, and harmonious soft environment with equal competition for the development of the health industry. Furthermore, we will encourage the research, development, and the clinical application of medical technologies, new devices, and new drugs, and establish a strict working mechanism for in-process and after-process supervision. And, we will explore implementing a list management system for clinical application of medical technologies, prohibit the use of medical technologies in the negative lists, and implement a record system for medical technologies in the restricted lists.

## (IV) Making up the Deficiencies in Factors and Promoting High-quality and Efficient Development.

We will research and support Hainan Province to implement the free trade policy in the pharmaceutical field and introduce the internationally leading research and development equipment and materials. We will explore new paths to promote the flexible integration of commercial insurance, consumer finance, and the health industry, encourage financial institutions of the banking industry to innovate credit products, improve services, and support the development of medical and health enterprises. In addition, we will further improve the physician practice policy, creatively implement the "Two Allowed" policies, and establish a personnel and salary system that conforms to the characteristics of medical personnel. We will optimize the talent training, flow, and utilization mechanisms of the health industry, carry out the "order class" talent training mode, and guide and support school-school cooperation and school-enterprise cooperation to train talents that are urgently needed by the pharmaceutical industry. Furthermore, we will improve the introduction mechanism for high-end talents in the health industry, study and formulate preferential policies for reduction and exemption of individual income tax for high-level talents in the health industry, formulate policies to facilitate the practice and residence of foreign doctors in Hainan, and explore formulating policies to facilitate entry-exit and residence permits for foreign domestic helpers for corresponding periods. We will encourage famous universities and research institutes in China to set up branches in Hainan, support the establishment of scientific research institutes in Hainan, and implement the preferential corporate income tax policy for national high-tech enterprises and technologically advanced service enterprises. Moreover, we will utilize policy tools such as tax, price, and land in a comprehensive manner to reduce the threshold for start-up and operation burden of the health industry, and encourage medical and health enterprises to raise funds through the multi-level capital market.

## (V) Deepening International Cooperation and Expanding the Space for Industrial Development.

We will strengthen the publicity and promotion of the health brands in Hainan, make full use of the resources of Boao Forum for Asia, and further improve and enrich the multi-level and multi-field international exchange and cooperation platforms. We will support the establishment of the 21st Century Maritime Silk Road Health Exchange Platform in Hainan, promote more pragmatic and efficient cooperation between Hainan and countries and regions of the Belt and Road Initiative in the health industry, focus on strengthening exchanges and collaboration with Southeast Asian countries in medical and health tourism, expand the "Silk Road of Health", and integrate into the global industry chain in an in-depth manner. In addition, we will strengthen cooperation with international associations of standards and specifications in related fields of the health industry and actively participate in the formulation of international rules and standards for the health industry. We will explore ways to build cooperative parks, set up sub-bases mutually, and set up joint venture capital funds to boost the international exchange and cooperation in innovation. Furthermore, we will strengthen regional cooperation and exchanges, actively integrate into the development of the Guangdong-Hong Kong-Macao Greater Bay Area, plan for the cooperation in the health industry between Hainan and Hong Kong and between Hainan and Macao, and closely cooperate with Hong Kong, Macao, and Taiwan in the health field. Moreover, we will strengthen exchanges and cooperation with other pilot free trade zones and jointly plan for the construction of a number of cooperative parks.

# VII. Organization and Implementation

## (I) Strengthening Organization and Leadership.

We will set up a mechanism to coordinate and promote the development of the health industry, in which a leader of the People's Government of Hainan Province acts as the team leader and the departments of health, development, and reform, finance, human resources, social security, industry and information technology, market supervision, and TCM are involved, and the leading departments are specified, formulate an annual work plan for the health industry, and coordinate in a timely manner to solve major problems in the development of the industry.

## (II) Enhancing Monitoring and Assessment.

We will improve the statistics and classification system for the health industry, take the lead in establishing a sound statistical system for the health industry in China, keep abreast of dynamic changes, strengthen the tracking and judgment of the development trend of the health industry in typical regions at home and abroad, and guide the standardized, healthy and sustainable development of the industry. In addition, we will strengthen supervision and assessment, incorporate the health industry development indicators of relevant departments, cities, and counties into the target responsibility system for assessment, and build an operational mechanism for mutual supervision of decision-making, implementation, and evaluation. And, we will allow third-party assessment institutions to play their role, monitor, and evaluate the implementation of the plan, and adjust and improve relevant policies based on the evaluation results in a timely manner.

## (III) Improving the Regulation System.

We will actively explore regulation approaches suitable for the development of new technologies, products, operation types, and models. We will tailor regulation models for new operation types with an accurate outlook on development prospects and potential risks, strengthen monitoring and analysis of areas without an accurate outlook and encourage inclusive development, effectively strengthen supervision on those that have high potential risks and may cause serious adverse social consequences, and resolutely ban those with illegal business in the name of innovation. In addition, we will strengthen the digitalization, mobility, and whole-process traceable supervision of health monitoring and health certificates for practitioners, integrate the existing credit information resources, and gradually establish health industry institutions indexed by social credit codes and manage relative credit files, and encourage trade associations and other third parties to carry out credit assessment, guide the industry to follow the trade standards, and improve the mechanism for resolving commercial disputes in diversified ways.

## (IV) Creating Favorite Conditions.

We will strengthen the tracking, research, and judgment of the development of the health industry, summarize the good experiences and excellent practices in relevant fields in time, and explore and develop a number of replicable experiences. In addition, we will release information related to the health industry in a timely manner, provide enterprises with information on new technologies in the industry and information on investment promotion and cooperation, and build a communication platform. Furthermore, we will accelerate the construction of enterprise credit and commodity quality insurance systems and establish a good consumption environment for health products and services. Moreover, we will strengthen the publicity and promotion of health brands of Hainan and enhance their international awareness. And, we will make full use of radio, television, the Internet, and other media to create favorite conditions in which the whole community cares about the development of the health industry.