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Model Research on Ningbo – CEEC Scientific and Technological Exchange and Cooperation

Based on the background and current situation of Ningbo - CEE countries' scientific and technological exchanges and cooperation, this paper expounds the necessity of Ningbo's scientific and technological exchanges and cooperation with the CEE countries, and puts forward some related suggestions on the scientific and technological exchange and cooperation mode between Ningbo and CEE countries.

I. The Background of Ningbo-CEE Countries Scientific and Technological Exchange and Cooperation

In the overall background of "One Belt and One Road" Initiative, "16+1 Cooperation" Mechanism and the Construction of "Made in China 2025", the scientific and technological exchange and cooperation between Ningbo and CEE countries are greatly encouraged. The high end talent team and the incubation of scientific and technological achievements coincide with the time.

The "One Belt and One Road" Cooperation Initiative, proposed by Chinese Chairman Xi Jinping in September and October 2013, aims to use the historical symbols of the ancient Silk Road, hold high the banner of peaceful development, actively develop the economic partnership with the countries along the road, and jointly build a community of interests, a community of destiny, a community of responsibilities of political mutual trust, economic integration and cultural inclusion¹. The CEE countries play a vital role in the "One Belt and One Road" Initiative, and the solid and effective cooperation between China and them affects the implementation of the "One Belt and One Road" Initiative to a considerable extent. As a pilot subregional cooperation under the framework of China-Europe relation cooperation and one of the important coordination platforms and promotion areas for the development of "One Belt and One Road" Initiative in Europe, "16+1 Cooperation" has the important value and meaning of promoting the construction of the CEE cooperation and the construction of the "One Belt and One Road" at the beginning². While optimizing the allocation of elements among countries, international scientific and technological cooperation can help cooperative countries break through low-end locking and achieve value chain upgrading and industrial upgrading³. The joint promotion of "One Belt and One Road" Initiative and the mechanism of "16+1 Cooperation" is enough to highlight the necessity and importance of scientific and technological exchanges and cooperation between Ningbo and CEE countries.

Ningbo actively responds to the call of the times, always puts the opening to the outside world in a leading position, and constantly increases the intensity of opening up to the outside world, and composes a new chapter of opening up. Ningbo, as China's first "Made in China 2025" pilot city, hopes to attract excellent overseas talents and outstanding scientific and technological achievements to

Ningbo and serve China's manufacturing industry. Ningbo and CEE countries have great potential for exchanges and cooperation in the field of science and technology. Ningbo hopes to continue to dig deep and walk in the forefront of scientific and technological exchanges and cooperation between China and CEE countries and commit to build the most powerful platform for cooperation and exchange of science and technology between China and CEE countries.

II. The Current Situation of Ningbo - CEE Countries' Scientific and Technological Exchanges and Cooperation

Many important activities of China's cooperation with CEE countries were successfully held in Ningbo. Three sessions of Ministerial Conference of China and Central and Eastern European Countries on Promoting Trade and Economic Cooperation, four sessions of China-Central and Eastern European Countries Investment and Trade Expo, five sessions of China-CEEC Educational Cooperation Conference were all successfully held in Ningbo. In 2017, Ningbo successfully held the 2017 China-Central and Eastern European Countries Scientific and Technical Achievements Exchange Conference. In 2018, Ningbo successfully held the New Materials and New Equipment of Central and Eastern Europe Special Event of the First China (Ningbo) Global Experts Summit, the China (NINGBO)-CEE Countries High Level Talents Cooperation Symposium and so on. Ningbo's technological exchanges and cooperation with CEE countries are in full swing. Ningbo is the critical period of industrial restructuring and the crucial period of innovation driven economic transformation and development. Through scientific and technological exchanges and cooperation with CEE countries, foreign experts and high-end talents are introduced and participated in the economic and social development of Ningbo, and an open cooperation platform is built together to join hands to build a broad community of shared interests, achieve development and innovation, mutual benefit and win-win situation.

Table 1.

China-CEE Cooperation Exchange Calendar



I. The Necessity of Scientific and Technological Exchanges and Cooperation between Ningbo and CEE Countries

With the continuous advancement of "One Belt and One Road" construction, cooperation between China and CEE countries in the field of science and technology is developing rapidly. CEE countries have their own development advantages and conditions, by further strengthening international scientific and technological cooperation with CEE countries, carrying out transnational technology transfer, high-level talent team, scientific and technological achievements incubation, including technical consultation, evaluation, docking, tracking and other full-course service, which will certainly enhance the capacity of Ningbo's industrial technology innovation and achievement transformation, and thus excavate new growth power. CEE countries have cutting-edge technologies in certain fields in the world, and the introduction of advanced technology and equipment and industrial high-end talents through scientific and technological cooperation plays an important role no matter in the transformation and upgrading of traditional industries of Ningbo, or the development of emerging industries in a leap-forward manner, which not only can greatly save the exploration time, improve the starting point of the development level of science and technology, but also promote the technology transformation of the enterprise and the technological progress of the industry, and improve the international competitiveness of our country's products while improving the economic benefits of the enterprises.

CEE countries face strong demand for economic restructuring and infrastructure upgrading, while China has competitive advantages and bilateral cooperation in the fields such as equipment manufacturing and infrastructure construction which not only meets the respective development characteristics and cooperation needs of China and CEE countries, but also is in line with the common aspirations and interests of the people of China and CEE countries⁴.

II. Related Suggestions on the Mode of Scientific and Technological Exchanges and Cooperation between Ningbo and CEE countries

1. Pay attention to cultural differences

In order to cultivate close cooperative relations and effectively carry out exchanges, Ningbo should pay attention to the differences of the sixteen countries in CEE. Each country has its own unique cultural deposits, with differences and diversity. Understand the differences and complexities of the sixteen countries in CEE, and understand the differences and complementarities between China and the sixteen countries in CEE, and observe the status and role of China's relations and cooperation with CEE countries from the perspective of China's global strategic structure, which is the premise of the effective operation of the "16+1" cooperation mechanism. "Relationship" and "Cooperation" involve two sides or multiple sides, and the differences and complementarities related with the two parties are important influencing factors⁵.

There is no doubt that this difference can't be ignored whether the scientific and technological exchanges and cooperation between Ningbo and CEE countries can be carried out effectively.

2. Promote the construction of science and technology parks

The Science and Technology Park is a kind of developing base of new industry that accelerates the development of new technologies and its application of achievement, serves the industrial modernization of the country or the region to obtain the aim of opening up the international market and through a variety of preferential measures and convenient conditions to highly centralize the intelligence and capital, specialize in research and production of new high-tech. Its essence is to establish the "Knowledge-Intensive Area" and "Technology-Intensive Area" that makes the most efficient use of various resources to build closer link between the latest science and technology and economy⁶.

The success cases of the "Silicon Valley" in the United States, the Tsukuba Science City in Japan, the Kent Ridge Science Park in Singapore, and the Hsinchu Science Park in Taiwan Province can be clearly demonstrated. The construction of Science and Technology Parks will attract many domestic and overseas enterprises with new high-tech to enter the park, increase the opportunities for scientific and technological exchanges and cooperation between local enterprises in Ningbo and outstanding enterprises in CEE, and form a cluster of enterprises and technologies in Ningbo to achieve the goal of driving the development of scientific and technological cooperation. The enterprises in park can enjoy the advantages of participating in international scientific and technological cooperation, have direct access to advanced technology, and enjoy various preferential policies and government support.

3. Make medium-term and long-term plan

Constantly increase the depth and breadth of scientific and technological exchanges and cooperation between China and CEE countries, and maintain a long-term and efficient cooperation mode to make it full of powerful vitality. China and CEE countries have broad fields of scientific and technological cooperation and bright prospects, and Ningbo needs to keep looking forward, bring forth new ideas, seize the opportunity and strive to build a new technology partnership of comprehensive strategy of open and inclusive, mutually beneficial. The Ningbo government and relevant institutions need to comprehensively consider the reality of CEE countries and China in the context of the big era, seek truth from facts, coordinate the favorable factors of all parties, cooperate effectively with "Interoperability" and make pointed references to make the systematic and feasible medium-term and long-term plan, highlight key points, so that to promote high-quality development and ensure stable cooperation between China and CEE countries.

4. Introduce talent exchange

Innovation is the first driving force for development. The essence of innovation is talent-driven. Vigorously cultivating and attracting scientific and technological talents is the primary choice for maintaining international competitive advantage. Ningbo should actively respond to the talent introduction strategy such as the Recruitment Program of Global Experts (National "Thousand Talents Program"), National High-level Talents Special Support Plan (National "Million Talents Program"), analyze the influencing factors of talent attraction, and develop a series policies and strategies to attract scientific and technological talents to gather in Ningbo, and inspire scientific and technological talents to continuously improve their ability of

innovation. Ningbo can reach agreements with CEE countries, regularly make talents exchanges, hold scientific and technological achievements docking conferences, conduct on-the-spot investigations, continuously deepen understanding, and finally achieve the settlement of the scientific and technological achievements and promote common development.

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