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Research on the mechanism of technological innovation driven by China's industrial clusters

——Taking the construction and development of industrial clusters in Shenzhen High-tech Zone as an example

（Thesis submitted for the degree of Executive Doctorate in Business Administration）

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Abstract

Industrial clusters are a common phenomenon in the process of regional economic development. As the era evolves from industrial economy to knowledge - based economy, the socio - economic form is undergoing tremendous changes, which also brings about the transformation of the functions and forms of industrial clusters.

Against the backdrop of China's rapid economic growth, industrial clusters, as a new form of industrial organization, have gradually become an important way to promote China's economic development. In this context, exploring new paths for innovation - driven development through industrial clusters has become an important topic in China's current economic development. Therefore, this paper aims to explore the innovation - driven development mechanism of China's industrial clusters, analyze practical cases, and put forward corresponding development strategies, in the hope of providing useful inspiration and suggestions for the innovation - driven development of China's industrial clusters, thus promoting the sustainable development of China's industrial clusters and facilitating the transformation and upgrading of China's economic foundation. This paper adopts research methods such as case - study method and literature review method. Through consulting and analyzing relevant domestic and foreign literature, it deeply explores the innovation - driven development mechanism of China's industrial clusters. On this basis, combined with actual cases, it deeply analyzes the paths and methods of technological innovation, and conducts in - depth discussions from aspects such as development elements and development logic, reveals the underlying mechanisms, and draws corresponding conclusions and suggestions. At the same time, this paper also conducts empirical research to verify the feasibility of this mechanism, providing a scientific basis for the development of China's industrial clusters.

According to the research results, the innovation - driven development mechanism of China's industrial clusters includes various aspects such as the organizational composition of industrial clusters and government policies. Among them, the form of organization construction around the innovation source within the industrial cluster is a key factor in realizing innovation driven

by industrial clusters. This paper focuses on exploring the mechanism and practice of the innovation - driven development of China's industrial clusters, and puts forward strategies and methods for the innovation - driven development of China's industrial clusters. However, there are still some issues that need further in - depth research and discussion. Therefore, future research will further focus on the construction of the internal structure of industrial clusters and the optimization of the guiding role of the government, strengthen the research and application of innovation - driven development of industrial clusters, promote the sustainable development of the Chinese economy, and facilitate the transformation and upgrading of China's industries.

This paper takes the mechanism of industrial clusters promoting technological innovation as the research object. Through in - depth analysis of relevant theories and practices, it explores how China's industrial clusters drive technological innovation and constructs a corresponding mechanism model.

Keywords: Industrial Clusters; Technological Innovation; Knowledge - based Economy; Comparative Advantage; Knowledge Spillover

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