

Dynamic Mechanism of Social Capital Embedded in Healthy Aging Industrial System based on DPSR Framework

Meng Xu^{1,†}, Lingqi Kong^{2,†}, Ming Chen^{2,*}

¹School of Management, Nanjing Normal University of Special Education, Nanjing 210038, China

²Ginling College, Nanjing Normal University, Nanjing 210097, China

*chenming.1008@163.com

†The Two Authors contributed equally to this work

Abstract

With the increasing aging of China's society, the importance of pension industry has become increasingly prominent. In this context, the involvement of social capital in the pension industry presents an inevitable trend. This paper uses the DPSR framework to build the social capital embedded in the healthy aging industrial system, and analyzes the dynamic mechanism of the system operation based on the "transmission-feedback" principle, and finally draws the following conclusions: (1) The intervention of social capital is conducive to promoting the development of the pension industry, and the two organically integrate to build the social capital embedded in the healthy aging system. (2) The operation of social capital embedded in the healthy aging industrial system presents a dynamic mechanism of "drive-press-state-response". That is, the driving force of population aging is transmitted to the social level, causing economic pressure, and then showing a state of resource consumption, which ultimately requires the government's policy response.

Keywords

DPSR Model; Healthy Aging Industry; Dynamic Mechanism.

1. Introduction

In the broad sense, the pension industry is a collection of various industries that provide services around the existence of life in order to achieve long-term health and happiness. According to the concept proposed by the Global Pension Industry Research Center(OLGADE), the pension industry is a life support industry for individuals according to the characteristics of economic development, natural environment and customs in different regions. The pension industry is not a single industry, but a comprehensive industrial system that includes the first, second and third parts, which is constantly extended according to individual needs and integrates production, operation and service. At the end of the 20th century, China began to carry out research on "pension industry" and "aging industry". At the beginning of the 21st century, "health industry" appeared in the research field of scholars. It played a relatively positive role in the construction of healthy aging by promoting the willingness, mode and channel of social capital to participate in the healthy aging industry and the effect of participation. This paper focuses on the relevant issues of social capital intervention in the pension industry, that is, by building a social capital embedded in the healthy aging industrial system, to explore the complex dynamic mechanism between the two.

2. Methods and Materials

This paper uses the improved DPSR model to study the operation mechanism and model of social capital embedded in the healthy aging system based on the ecological perspective. In a general sense, the PSR model refers to that human production activities such as industry, agriculture and transportation exert certain pressure on the environment and resources, which will be transmitted to enterprises, management and other institutions and organizations with certain status indicators. and relevant organizations need to make a certain response. At the same time, the pressure will be directly transmitted to various departments with certain information. In general, the various parts of the system are interconnected. This paper introduces the drive factor into the PSR model to make the model more concrete.

Most experts at home and abroad use the "drive-press-state-response" DPSR model to analyze the operation of the ecosystem. The DPSR model reflects the interaction between human activities, natural resources and institutions, but it does not conduct a more in-depth analysis of the relationship between various factors. How the various parts interact with each other needs to be revised in the actual application process. Healthy aging includes various indicators of ecological society, economy, resources and feedback. Therefore, after revising the above model, a healthy aging industrial system is described from an ecological perspective.

Drive the driving force module: it represents the driving factors that lead to the change of DPSR theory and the external factors that promote the embedding of social capital into the construction of healthy aging, that is, the change of population structure. Under the influence of demographic factors such as aging, life expectancy, newborn fertility rate, the form of family intergenerational structure changes from the past pyramid to the trapezoid, and finally the trend changes into the inverted pyramid, reflecting the causes of China's aging trend.

Press the pressure module: China's aging degree reflects the difficulties and pressures faced in the process of economic and social development, reflects the direct impact of society on the healthy aging system, and highlights in the allocation of social endowment resources, pension gap, endowment medical resource allocation and professional personnel allocation.

State the status module: refers to the observed aging service quality or the construction of software and hardware. Under the conditions of development goals and pressures, the actual situation of a healthy aging society is mainly reflected in: such as personal health indicators, pension security, population dividend, travel convenience index, accessibility of software and hardware for aging, etc.

Response the response module: As the most important part of the whole DPSR theory, responsiveness is the degree of feedback response of human social system to a healthy aging society, such as the embedding of social capital, intergenerational compensation, innovative equipment supported by technology, and professional skills improvement.

3. Results and Discussion

According to the actual situation of the healthy aging system, build a DPSR model of social capital embedded in the operation mechanism of the healthy aging system (as shown in Figure 1), and analyze the operation mechanism of the healthy aging state.

In the driving force, the drive of population aging is transmitted to the social level, causing social and economic pressure. Economic pressure is transmitted to the state of healthy aging. State is consumed due to relatively balanced economic security level and population dividend. The response shows that the government has started to encourage the construction of healthy aging industry through policies and encourage the participation of social capital. Social capital participates in the construction, and the skill training of professionals is fed back to the healthy aging state, and the construction of pension security and the reduction of smart population

dividends are replaced to cope with the shortage of professionals, thus reducing the impact of aging on social development.

Drive the driving force is the development driving force brought by the strengthening of the aging trend. Aging is mainly caused by factors such as the prolongation of the life expectancy of the elderly population, the continuous growth of the elderly population and the decline of the population fertility rate year by year. The imbalance of the population structure caused by population aging will be inverted pyramid in China's population structure in the next 20 years, and the issue of aging will become a social issue that China attaches the most importance to and needs to be reconciled.

Press the pressure is mainly concentrated on the social and economic pressure, which is reflected in the gap of pension reserves and the lack of funds invested, resulting in the low salary level of employees in the aging industry, especially in the service industry, the high mobility of personnel, the lack of professionalism and other problems.

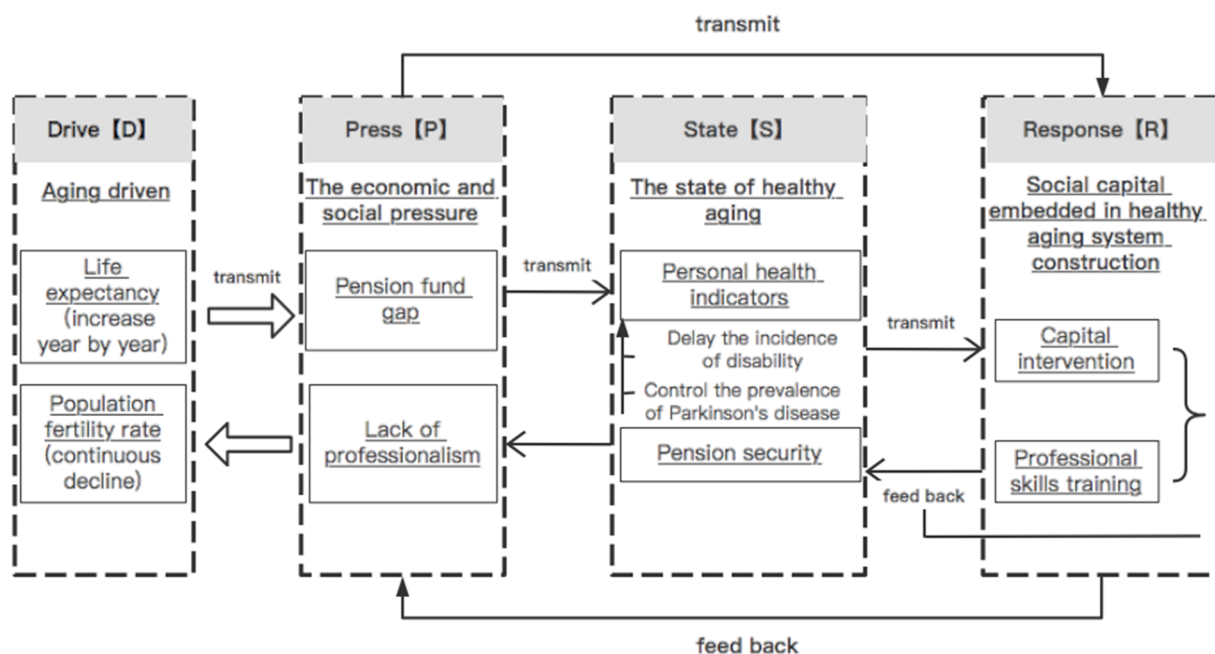


Fig 1. Schematic Diagram of DPSR Model of Operation Mechanism of Social Capital Embedded in Healthy Aging System

State the state is the manifestation of healthy aging. From the perspective of personal state, for the expected life extension, most elderly people carry chronic diseases, and need to delay the incidence of disability and other serious disease mortality, so as to ensure a relatively healthy and quality aging life. From the perspective of the state of the country, on the one hand, the country needs to continue to increase the pension system and pension security, reduce the gap in pension reserves, find out the development path of the aging industry suitable for China's national conditions, and ensure that the elderly have a sense of security. On the other hand, the gradual disappearance of the demographic dividend caused by the aging of the population is an epochal and structural change, which has an impact on the labour-intensive service industry, especially on the labour-intensive aging service industry, causing certain economic pressure.

Response the response mechanism is the feedback of social capital embedded in the healthy aging industrial system. From the participation of social capital in the development of industry to the capital-driven training of relevant professional skills for professionals, improving the quality of personnel and enhancing the competitiveness of enterprises in the aging industry, we respond positively to the increasingly severe aging trend.

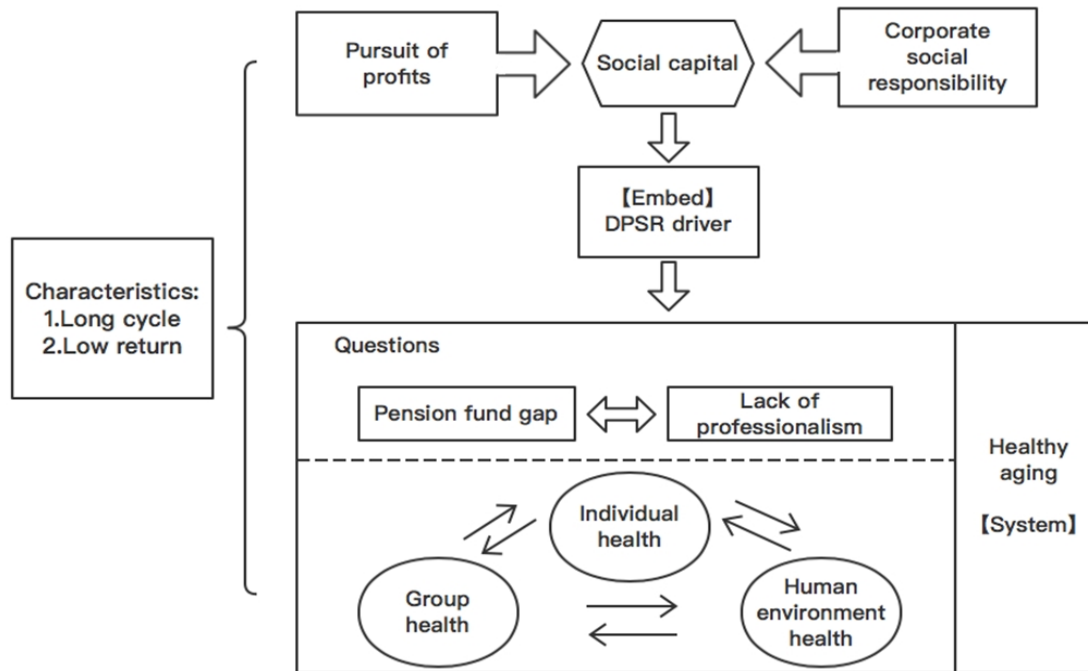


Fig 2. Schematic Diagram of Mechanism of Social Capital Embedded in Healthy Aging System

The embedding of social capital in the healthy aging industry has the characteristics of long investment cycle, low rate of return and emphasis on social welfare, which leads to the problems of insufficient confidence and support in the embedding of social capital in the industrial system. Therefore, with the support of the government, social capital has been successfully embedded in the aging industrial system, but social capital still needs to achieve a strategic balance between fulfilling corporate social responsibility and pursuing profits. Under the guidance of the concept of balance, the mechanism of social capital embedded in the healthy aging industry of the DPSR model began to operate (see Figure 2). In order to overcome the systematic problems such as the large gap of pension demand and supply and the unstable structure of employees in the healthy aging system as a whole, so as to realize the all-round health goals of the healthy aging system, such as individual health, group health, and human environment health.

4. Conclusion

The main conclusions of this paper are as follows:

The intervention of social capital is conducive to promoting the development of the pension industry, and the two jointly build a system of social capital embedded in healthy aging. The core of the coordination mechanism between the development of healthy aging industry and the economic, social and ecological environment lies in promoting the virtuous circle between the two based on their relevance, constantly improving the investment ecological environment of social capital, and promoting the continuous prosperity of the aging industry.

The operation of social capital embedded in the healthy aging industrial system shows a dynamic mechanism of "D drive-P press-S state-R response". Among the driving force, the drive of population aging is transmitted to the social level, causing social and economic pressure. The economic pressure is transmitted to the state of healthy aging, and the state is consumed due to relatively balanced lever of economic security and demographic dividends. Response shows the government's efforts to encourage the construction of healthy aging industries through policies.

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