Research on the influence of entrepreneurship inheritance and innovation and entrepreneurship team growth on sustainable economic development from the perspective of psychological contract

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Abstract: The sustainable development of economy has always been the focus of society. Based on the data of some small and medium-sized enterprises in the new over the counter market from 2014 to 2018, this paper studies the relationship among entrepreneurship, psychological contract and the growth of innovation and entrepreneurship team. The empirical research shows that: the inheritance of entrepreneurship and the strengthening of psychological contract can promote the growth of innovation and entrepreneurship. When the psychological contract is strengthened, the entrepreneurship will also be inherited, and promoting the sustainable development of economy.

1 INTRODUCTION

The entrepreneurship of innovation and entrepreneurship teams can not be simply equated with individual entrepreneurship. From the perspective of enterprise growth, innovation and entrepreneurship teams retain the characteristics of individual entrepreneurship, and realize the expansion of entrepreneurship from individual level to organizational level. Therefore, it is necessary to analyze the characteristics of entrepreneurship within the innovation and entrepreneurship team, give full play to the role of entrepreneurship, strengthen the management of team entrepreneurship, and play a cultural leading and boosting role in the healthy growth of the innovation and entrepreneurship team.

2 THEORETICAL ANALYSIS AND HYPOTHESIS

The innovation and entrepreneurship team is a special team. Zhu Renhong (2012) defined the innovation and entrepreneurship team as a special team composed of two or more people who share a common vision and goals, jointly establish a new enterprise or participate in the management of a new enterprise, have a certain equity and directly participate in strategic decision-making [1]. Pan Li (2020) proposed that psychological contract is a psychological bridge between employees and enterprises [2]. Mao Lianghu (2020) defines entrepreneurship as a kind of innovation ability, entrepreneurial ability, growth ability and financial ability possessed by entrepreneurs in the development of enterprises [3]. According to the above theoretical analysis, the hypothesis is put forward

H1: entrepreneurship can significantly promote the growth of innovation and entrepreneurship team.
H2: the strengthening of psychological contract can positively promote the growth of innovation and entrepreneurship team and the inheritance of entrepreneurship.
H3: the strengthening of psychological contract and entrepreneurship promote the growth of innovation and entrepreneurship team, but the effect of entrepreneurship is better.

3 Research design

3.1 Data sources

Select the enterprises of "the new over the counter market" from 2014 to 2018 to study. In order to improve the authenticity and reference of the research, the samples of ST (special treatment) enterprises, enterprises that stopped transferring more frequently in five years, those with serious lack of data and those that did not publish annual reports in five years were eliminated. The selection of data is from CSMAR, and some missing data is manually collected by the National SME transfer system.
3.2 Setting and description of variables

3.2.1 Construction of Entrepreneurship Index

Referring to the research results of Zuoyi Ye and Wenbin Wu (2018), the entrepreneurship index is constructed by using five indicators of fixed assets per capital, intangible assets per capital, R & D expenditure, independence of the board and per capital operating income[4] . Per capital fixed assets, per capital intangible assets and per capital operating income can show the entrepreneur's management capacity. The independence of the board of directors ultimately depends on whether the legal representative and the general manager of the company are integrated. R&D expenditure is used as the proxy variable of internal innovation power. In order to make the entrepreneurship index more objective and convincing, this paper uses entropy weight method to quantify the entrepreneurship index. The first step of entropy weight method is to standardize the data.

\[
X_i = \frac{x_i - \min(X)}{\max(X) - \min(X)}
\]

The second step is to find the information entropy of each index. Entropy of a set of data:

\[
E_i = -\sum_{j=1}^{K} p_{ij} \ln p_{ij}
\]

If \( p_{ij} = 0 \), then define \( \lim_{p_{ij} \to 0} p_{ij} = 0 \). The third step: determine the weight of each index. The weight of each index is calculated by information entropy

\[
W_i = \frac{1 - E_i}{\sum_{i=1}^{k} E_i}
\]

Based on the software Rstudio, the function is established, and the final weight is calculated. The entrepreneurship index is calculated by the sum of the standardized value of each index and the corresponding weight

\[
E = w_1F + w_2I + w_3R + w_4B + w_5R + D
\]

3.2.2 Innovation and entrepreneurship team growth index measurement

Enterprise growth refers to the data of Zhang Liucheng (2020)[5], which is measured by the "growth rate of net assets" of the enterprise. This index can reflect the income growth level of shareholders' equity, and then evaluate the growth of the enterprise by evaluating the growth rate of net assets. The evaluation index of enterprise growth is the growth rate of net assets, and the calculation method is the growth rate of net assets = (net assets at the end of the period - net assets at the beginning of the period) / net assets at the beginning of the period.

3.2.3 Measurement of psychological contract

Because the salary satisfaction can directly show the psychological contract of employees to the enterprise, we can use the employee compensation payable index to measure the psychological contract.

4 THE CONSTRUCTION OF MODEL

In order to verify the hypothesis, the following model is established. In order to avoid pseudo regression, unit root test is performed for each variable in section data. The unit root test is carried out by Rstudio software, and the \( p \) value is far less than 0.05. Therefore, the alternative hypothesis is accepted, that is, all variables are stable. The model are

\[
NAGR = c + \alpha \ln E + \ln CON + \mu
\]

\[
NAGR = c + \beta \ln salary + \ln CON + \mu
\]

\[
E = c + \beta_0 \ln salary + \ln CON + \mu
\]

Among them, nagr is the growth rate of net assets, which measures the growth of enterprises; \( E \) is the entrepreneurship index, salary measure psychological contract; \( Con \) is the control variable, \( C \) is the intercept term.

5 EMPIRICAL ANALYSIS

Test H1, it can be seen from table 1 that the adjusted value is 0.37, \( P \) values are less than 0.01, indicating that the hypothesis is true. When the change of entrepreneurship is 1%, the change of enterprise growth is 128.576%, which indicates that entrepreneurship plays a greater role in promoting the growth of enterprises.

| Variable | Entrepreneurship | psychological contract | psychological contract and Entrepreneurship | psychological contract on Entrepreneurship |
|----------|------------------|------------------------|------------------------------------------|------------------------------------------|
| C        | -55.0222***      | 0.0797                 | -65.8002***                             | -56.2112***                             |
|          | (-11.4943)       | (0.2264)               | (-14.3143)                              | (-11.6054)                              |
| E        | 128.576***       | 163.0591***            | 130.2732***                             | -0.0736***                              |
|          | (5.2330)         | (6.3556)               | (5.3029)                                | (-9.7085)                               |
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The results are as follows: 1. Entrepreneurship can significantly promote the growth of innovation and entrepreneurship team, and improving the team's innovation spirit, entrepreneurship and management ability can effectively promote the growth of innovation and entrepreneurship team. Per capital R&D expenditure shows the enterprise's innovation spirit. No matter in which stage, the role of innovation spirit on enterprise growth is indispensable. 2. The strengthening of psychological contract can positively promote the growth of innovation and entrepreneurship team and the inheritance of entrepreneurship. One of the manifestations of strengthening psychological contract is that employees have a stronger sense of trust in the organization, and the salary or benefits can roughly meet the expectations of the organization. 3. The strengthening of psychological contract and entrepreneurship jointly promote the growth of innovation and entrepreneurship team, but the effect of entrepreneurship on team growth is better.

According to the above conclusions, entrepreneurship has a greater impact on the growth of enterprises than psychological contract.

First, the government should continue to strengthen the cultivation of entrepreneurship, especially for small and medium-sized micro entrepreneurs. The government's support can help the growth of small and medium-sized micro enterprises in the first time and more accurately. Second, the managers of innovation and entrepreneurship team should enhance their innovation spirit, entrepreneurship and management ability. In the initial stage of innovation and entrepreneurship, we should focus on cultivating our own innovation spirit and entrepreneurship. Third, we should make more effective internal promotion system, improve employees' salary and welfare, and strengthen psychological contract. The strengthening of psychological contract will enhance the team members' recognition of team leaders, generate admiration, and promote the horizontal transmission and vertical inheritance of individual entrepreneurship of leaders. The inheritance of entrepreneurship also promotes the growth of enterprises and the sustainable development of economy.

### 5.1 Robustness test

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