Polycentric Model of Development of Partner Relations as an Instrument of Development of the Russian Federation’s Regions

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Abstract

The search for new drivers for the development of the Russian Federation’s regions from the point of view of innovative transformations is currently relevant. In the current economic conditions, the role of the higher school in the training of demanded personnel is growing. Today, the university can and should become a reliable integrator of the business environment with state and municipal authorities. For the consortium of business environment, state authorities and universities, today there are significant barriers due to lack of infrastructure, good legal support, transparency of communication, sources of financing, etc. In order to optimize this process, the paper proposes the AUB polycentric partnership model, which will ensure free entry to and exit from the consortium, attracting the maximum number of participants, taking into account the elimination of possible risks.

Keywords: Development; Model; Partnership; Region.

1. Introduction

The development and establishment of new economic formations, the introduction of the project approach into practice makes it possible for the university to become a strategic center for the generation of innovative developments, information flows, and human resources.

The development of a three-level model for the development of the regional economy has already contributed to the formation of the polycentric model for the development of regional agglomeration. The model today includes the following levels:

Level 1 – Authorities (A);
Level 2 – University (U);
Level 3 – Business (B).

The prerequisites for creating such a model can include (Figure 1):
- formation of an innovative cluster of regional economic development;
- introduction of project management in business structures;
- improvement of the image of higher education institutions through the implementation of state development programs.

Fig. 1: Prerequisites for creating the AUB model

The current trend in the development of the regional economy contributes to the emergence of the educational sphere to a new level, which will make it possible to determine the university not only from the position of the educational institution, but also from the position of a special entrepreneurial structure.
2. Problem Statement

The program of creation and development of basic universities in Russia is aimed at creating university centers for innovative, technological and social development of regions on the basis of which business partnerships are created. Already today, both legislative and organizational and managerial prerequisites have been created in the Russian Federation for educational budget and autonomous institutions to become founders of small innovative enterprises (SIE) being companies and business partnerships, the activities of which consist in the practical application (introduction) of the results of intellectual activity [1]. The Ministry of Education and Science of the Russian Federation has created an interactive information system "Register and Monitoring of Small Innovative Enterprises in the Scientific and Educational Sphere", which keeps records of notifications about the establishment of SIE, forms a register of notifications for further submission of data on payment of insurance premiums to the control bodies, and performs general monitoring of SIE [2]. Figures 2-3 show the dynamics of the establishment of business entities in 2009-2018, as well as the distribution of the creation of commercial companies (business partnerships) in the federal districts.

3. Research Questions

The analysis of the statistical data of the registration of notifications on the establishment of SIE showed that the number of SIE that were created decreased over time. This suggests that the number of founders is limited and has now reached saturation in the generation of new SIE. Therefore, new tools and new incentives for innovative activity of universities and scientific organizations are needed. In the authors’ opinion, the program for the development of "cornerstone" universities in Russia will solve a number of problems. A "cornerstone" university will provide an innovative platform for interaction of small and medium-sized businesses with potential new highly skilled personnel, and will also promote the development of state projects, enabling to concentrate financial resources for self-financing [3].

4. Purpose of the Study

The creation of the polycentric model for developing partnerships between higher education institutions with the business environment and public authorities (the AUB model) will provide innovative, scientific and personnel support for protecting the geopolitical and economic interests of the regions through the creation of a system of continuous professional education, integration of education, science and production, as well as strategic partnership with the business community (Figure 4).

The subjects of the partnership model are the three strong points of the region's development: public authorities, university and business environment. The partnership model includes 5 levels that cover various stages of the processes [4]. The public authorities act as the customer and represent a regional technological platform covering various clusters: construction, transport and logistics, mining and metallurgy, IT, engineering, biopharmaceutical, social, etc. In addition, the public authorities act as a focal point, providing normative regulation of the process of integration of the model’s subjects. The business community is represented by entrepreneurial structures of various levels (large enterprises, small and medium businesses), with the main task to increase competitiveness through the use of innovative technologies. Entrepreneurial structures, integrating with the university, on the one hand, provide themselves with highly qualified personnel, and, on the other hand, they receive new technologies.
by merging financial flows from entrepreneurial structures, and in universities, financial flows are pooled into a reserve fund. The next stage of the partnership model goes into the formation of operating teams, management bodies, coordination and control over the implementation process.

5. Methods

The partnership model contributes to the achievement of various goals and objectives from the perspective of three actors: public authorities are tasked with ensuring the regulatory and legislative framework for the integration process; universities solve the task of developing innovative products, technologies, business ideas, implementation and application of innovations in the operational process of their enterprises. If the model is successfully integrated into the goals and objectives set, not only a solution in the field of technology projects can be formed on the basis of universities, but also independent new business structures of the spin-off format that need to ensure access to the regional market can be created [6]. At the output from this model, a synergistic effect is obtained from the integration of the interaction of the actors. Thus, on the part of the public authorities, a new level of quality of life is taking shape, the emergence of innovative technologies, new clusters of development of economic sectors occurs [7]. The business community acquires at the output of the integration model some level of emotional intelligence and empathy [8].

6. Results

For universities, integration will create a certain image that will affect the contingent of future students, will enable to unite talented university students with entrepreneurial abilities, develop unique interdisciplinary competencies; create a methodological and educational basis for the development and implementation of social entrepreneurship projects, increase students’ level of emotional intelligence and empathy [8].

7. Conclusion

For the implementation of the partnership model, a number of barriers have now emerged, such as:
- the difficulty of involving students in the process of participation in entrepreneurship, lack of desire, lack of initiative;
- uniformed legislative framework for regulating the relationships among model participants;
- lack of a clear source of investment;
- backlog of teachers in the urgency of the development of the business environment;
- motivation of entrepreneurship and its involvement in the process;
- evaluation of the effectiveness of the final indicators;
- an ecosystem for implementing this model [9].

The implementation of the partnership model will provide a communication and analytical and entrepreneurial tool aimed at the formation of joint research and development programs, the creation of promising commercial technologies, new products (services) for the development of the regional economy.

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References