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The development of research and innovation infrastructure in the Republic of Sakha (Yakutia) Tomsk Polytechnic University

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Abstract

The paper deals with the examination of the activity of the State Committee on innovation policy and science presented by the Republic of Sakha (Yakutia). This Committee is aimed at the development of scientific and innovative infrastructure of the Republic. The main directions of committee activity are examined and described. Committee tasks and the purposes are described for achieving the main goal.

The State Committee works on the development of research and innovation capacity of the Republic: the formulation and implementation of government enterprise development programs; financial, material and technical, organizational and methodical support of business entities, attraction of domestic and foreign investments and loans.

The contribution of innovative activities into business structures, the mastering of advanced technologies, the participation in foundation of market infrastructures.

Keywords: State Committee, innovation, science, development;

1. Introduction

Innovation is a new product or service which provides quantity growth of efficiency or production. Innovation is a result of intellectual human activity, his imagination, creative process, discoveries. An example of innovation is production, goods and services introduction with new useful market or qualitative manufacture efficiency. The changes of technological processes give competitive advantages. A new product becomes innovative when it is demanded at market and customers can get it.

If innovation isn't perceived by the market and it doesn't meet a ready market, it is not an innovation, it is simply an invention. There are three key factors of innovation: intellectual activity, manufacture, public consumption.

2. Promotion of the State Committee

In the State Committee on innovation policy and science presented by the Republic of Sakha (Yakutia) was created to develop research and innovation systems for socio-economic development of the Republic. It provides cross-sector co-ordination on scientific, research

and technology innovations, as well as their functional regulation. The State Committee on innovation policy was established by the Government in 2011. [2]

The main function of this committee is to develop research and innovation systems for socio-economic development of the republic. One way for organizing research and innovation infrastructure is government support for research and innovation. From March, 2013 several competitions have been performed/organized for subsidizing business enterprises to cover expenses on scientific, pilot-plan and technological tasks connected with modernization and technological development of economy branch Sakha (Yakutia). [2]

The State Committee works on the development of research and innovation capacity of the Republic: the formulation and implementation of government enterprise development programs; financial, material and technical, organizational and methodical support of business entities, attraction of domestic and foreign investments and loans.

The contribution of innovative activities into business structures, the encouragement of developing and producing new types of products, the mastering of advanced technologies, patents, expertise, the participation in foundation of market infrastructures which made provision for business entities favourable conditions are very important. [1]

Objective of the State Committee's activity

The purpose of the State Committee activity is scientific, technological and innovative development of the Republic of Sakha (Yakutia).

For achieve results the State Committee has the following tasks:

- support of fundamental and applied researches;
- formation of mechanisms for interaction between participants of innovation process;
- creation and development of innovation infrastructure;
- contributions in foundation and development of small innovative enterprises;
- formation of regional innovative-industrial, academic clusters. [2]

Not less relevant tasks are the following: establishment of institutional and legal conditions for the development of venture capital investment in innovative projects; development of biotechnology in the Republic of Sakha (Yakutia).

The accomplishment of these tasks will help to solve the most complex problems of innovative development of the Republic of Sakha (Yakutia) with the help of effectiveness and efficiency of government support for scientific and innovation activities; financial, legal, personnel, organizational, information and other supports for innovation activities. For their realization both the executive authorities and scientific and educational institutions, the media and other interested persons and organizations will be attracted. The events for forming support infrastructures will be carried out to support innovation activity.

The following strategic lines (subprograms) and problems of subprograms for solving the stated goal and task solution are defined:

- the development of scientific potential of the Republic of Sakha (Yakutia);
- the formation and development of innovation infrastructure, technology transfer;
- the development of biotechnology in the Republic of Sakha (Yakutia). [2]

Now the main objective of State Committee on innovation policy and science is to expand the areas in which he works. In the first place, it is the further development of innovative infrastructure that now includes technology-park "Yakutia", Ventures Company, intellectual property protection centre and the centre for collective use. It is planned to continue strong collaborative relationship with the Russian Ventures Company, «Rosnano», «Skolkovo» and «Fond Bortika». [2]

The development of stimulating the production of scientific and engineering capabilities is also planned. To do this, the system of communication and promotion should be created. The innovative system consists of three major areas: 1) to stimulate innovative company, that is, to stimulate people who have some knowledge in science; 2) a system as a global infrastructure, which is divided into 'hard' and 'soft' infrastructures. 'Hard infrastructures' are business incubators, industrial parks and technology-parks. Infrastructure can significantly reduce production costs. 'Soft infrastructure' allows joining together all manufacturers such as scientists, inventors. It also includes seminars, pitch sessions, start-up tours, etc.; 3) a variety of activities. [3]

3. Conclusion

The major activities organized by the State Committee are the Day of Science, Engineering Day and Day of Innovator. Within these days, scientific-practical conferences, meetings, exhibitions are hold. Results of such activities are great: financial support of start-ups; creation of Technology Park and Cyber Park. The Committee also helps existed companies by giving group and individual grants.

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