

Chapter 15

Education for the Innovative Development of a Region: The Synergy of the Potential of Modern Business, Educators, and Youth

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ABSTRACT

The chapter describes the possible mechanism of supporting the development of education in a region through an organization of interaction between education and businesses into a regional network of schools and their partners (representatives of science, higher education, high-tech businesses) keen on innovation as the resource of the region's development. Mechanisms for an organization of such a network are based on the model of the innovative complex in education as a mechanism to ensure innovative pedagogical community at the interregional and regional levels through an organization of interaction of scientists, teachers, administrators, and people in a business. The chapter represents five years of experience of implementation of this model in the frameworks of the ROSNANO School League, the Russian national network program, and its influence on the establishment of the regional networks.

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INTRODUCTION

In this article, we undertake to show how issues of innovative development of region may be closely linked to the development of education, in particular, to the need to find frameworks of supporting teachers and leading them to an actual implementation of pedagogical innovations.

The article is a continuation of the research being built on the following methodological course.

At the first stage, during the observation and comprehension of the mechanisms of sustainable development of various innovative pedagogical communities and practices, we managed to formulate the Basic Model describing the organizational and management mechanism (we named it - the Innovation Complex in Education - INCE). Organization and support this mechanism around innovation pedagogical practice provide a sustainable existence and development of this practice. The result of this work - a detailed description of the INCE Base Model - was published in 2009 in the book (Tsirnulnikov, 2009).

In this work, we also discussed the effects and results of the INCE activities in support of innovative pedagogical practices and communities recorded in many years of observation.

Next, over several years, we carried out work on the experimental implementation of this model in practice at various levels - interregional and regional. This article is devoted to the description of this work and the arising effects and results.

THE MODEL OF THE INNOVATION COMPLEX IN EDUCATION

We briefly introduce the Model of the Innovation Complex in Education.

We start with the explication of how and why it is important to support teachers in the process of changes in education.

Education cannot be seriously upgraded until many teachers experience and integrate a large number of innovative pedagogical practices that are:

- Focus on the general accessibility of quality education;
- Providing fundamental solutions to tasks that are the most important for the successful education of all students at the certain age of them;
- Ensuring preservation and strengthening of the health of children in course of their education as well as of their emotional well-being;
- Relevant to a solution of both the essential educational objectives and tasks of development of the region (territory) (Tsirnulnikov, 2009).

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