

Innovative Development of Agriculture in Uzbekistan and its Digital Transformation

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ABSTRACT

The article deals with innovative development of agriculture in Uzbekistan and its digital transformation. So as the developments in the field of innovation in the agro-industrial complex, considered in the article, mainly the first stage of innovation process management as the stage of creating and mastering innovations.

KEYWORDS: world economy, innovative processes, technical and technological basis, innovative enterprises, agro-industrial complex, innovation activity, agricultural production, authoritative business

Currently, a new paradigm for the development of the world economy based on the use of innovations is being formed. Uzbekistan, in the conditions of integration into the world economy, cannot ignore these processes and must ensure the activation of innovative processes in all spheres of the national economy, including agriculture. Today it is necessary to restore this strategically important sector of the economy on a qualitatively new technical and technological basis that meets modern trends.

Innovative activity in modern conditions is the main factor in the development of agriculture, the maximum use of which in our country is the only way to ensure the sustainable development of the agro-industrial complex. Innovative development involves the creation of an innovative product, its carrier is an innovative agro-industrial enterprise.

However, the question arises: which enterprise should be considered innovative? In world practice, innovative enterprises should include enterprises in which more than 70% of the total output in monetary terms for the reporting tax period is formed through the production of innovative products. If such a criterion is extended to domestic enterprises, it will become obvious that there are currently very few innovative enterprises in the agro-industrial complex of the Republic. Based on the foregoing, one of the problems of innovative development can be formulated, namely, weak motivation and interest in the development of innovations among agricultural producers.

Many studies and developments in the field of innovation in the agro-industrial complex consider mainly the first stage of innovation process management - the stage of creating and mastering innovations. Although, an integral feature of innovation is the entry of a competitive product into the market. Abroad, the transformation of scientific and technological achievements into a market product is the most prestigious, most authoritative business. Today, the largest incomes are received from the sale of intellectual products (computer programs, licenses, expertise, trademarks, etc.).

In our country, innovation activity is of interest to many, however, so far one can see only declarations on the development of innovation activity. In recent years, for a number of reasons, there has been a certain decline in the innovative activity of agricultural science. Even the existing innovative potential of the agro-industrial complex is used within 4-5%. For comparison, this figure in the United States exceeds 50%. Many scientific and technical developments do not become an innovative product; annually remain unclaimed by agricultural production. An analysis of the scientific support of the agro-industrial complex showed that out of the total number of completed, accepted, paid by the customer and recommended for implementation of applied scientific and technical developments, only 2-3% were implemented in limited volumes, 4-5% - in one or two farms, and fate 60-70% of developments after 2-3 years was unknown to either the customer, or the developer, or consumers of scientific and technical products [2].

The current situation is the result of a significant deterioration in the financial condition of organizations in the agro-industrial complex. Recent years have been marked by a sharp reduction in the allocation of funds for scientific applied research. Per 1 hectare of agricultural land, they have decreased by more than 2 times compared to 1990. At the same time, in 18 developed countries of the world over the past three decades, they have increased from 0.96 to 2.2% of GDP attributable to agricultural production, including in the USA from 1.32 to 2.2%. In addition, in Australia, the cost of agricultural research for the specified period in the industry from 1.5 to 4.42%, in South Africa from 1.39 to 2.59%, and in 17 African countries - from 0.42 to 0.58% of GDP pertaining to agricultural production. As a result, it turns out that the whole world increases the cost of agricultural research, while in our country they are reduced. A weak link in the formation of effective innovative development of the agro-industrial complex is the study of the demand for innovation.

When selecting projects, a deep economic expertise is not carried out, performance indicators and risks are not evaluated, and schemes for promoting the results obtained in production are not worked out. This leads to the fact that many innovative developments do not become an innovative product. The researchers note that in modern conditions of innovative development of the agro-industrial complex, the role of the information and advisory service is significantly increasing, the activities of which require improvement, and personnel are needed. This is all the more important because at present the susceptibility of agricultural producers to scientific achievements is very low, which is primarily due to the low economic capabilities of enterprises. Foreign experience (Japan, China, South Korea, the USA, Germany, etc.) proves that the key link in the successful promotion of developments on the market is the level of organization of

the management of the entire project cycle. According to statistics, there are 10 managers abroad for one developer in science who bring this work to the standard, to the level to master it. In the Republic today, unfortunately, the proportion is reversed.

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In the Republic today, unfortunately, the proportion is reversed. The following facts should also be noted:

1. Over the past decades, for various reasons, there has been a decrease in the number of people employed in agricultural production by more than 2 million people. At the same time, the quality of the staff deteriorated. The proportion of managers of agricultural enterprises with higher education decreased from 86% in 1991 to 70% in 2001. The share of chief specialists with higher education decreased and amounted to 53%. Considering the role of personnel, we can confidently say that this situation has a negative impact on the effectiveness of the innovative development of the agro-industrial complex.
2. After the abolition of patent law and the entry into force of the Patent Law of the country, there was a sharp decline in inventive activity: from 200 thousand inventions in 1989 to about 20 thousand annually in subsequent years.

It is difficult to expect effective innovative development of the agro-industrial complex in the absence of intellectual property [3]. Thus, the constraining factors of innovative development of the agro-industrial complex of the Republic are numerous. These include:

1. weak management of scientific and technological progress, lack of close interaction between the state and private business;
2. a sharp decrease in the cost of agricultural science;
3. unpreparedness of personnel;
4. low marketing work;
5. low level of solvent demand for innovative products;
6. a sharp decrease in funding for the development of scientific and technological achievements in production and related innovative programs;
7. mechanisms that stimulate the development of the innovation process in the agro-industrial complex have not yet been developed, etc.

Agrarian science of the Republic has recently developed a large number of innovations, the implementation of which in the agro-industrial complex would raise it to a qualitatively new level. However, the degree of implementation of innovations among commodity producers has been and remains unacceptably low.

Researchers are unanimous in one thing - the innovative development of the agro-industrial complex cannot be implemented (improved) without the proper conditions for this: an appropriate infrastructure for innovation activity or a set of material, technical, legislative and other means that provide information, expert, marketing, financial, personnel and other services innovative activity.

Thus, the innovative development of the agro-industrial complex is a complex problem. Today, a systematic approach is needed to form an effective management system capable of transferring the agrarian sector of the Republic's economy to an innovative type of development in a short period.

Reference

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