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ANNOTATION

This article explains the concept of “innovation”, its specific features in agriculture, groups the influencing factors in the development of innovation in this area, provides practical recommendations as well as scientific proposals to further increase innovation activity in the agricultural sector. The conclusion is made about the need for an integrated approach to the regulation of innovation in the agricultural sector and the development of a system of measures aimed at increasing the innovative activity of agriculture.

Key words: innovation, innovative activity, innovative process, agricultural commodity producers, agricultural products.

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ҚИШЛОҚ ХЎЖАЛИГИНИ ИННОВАЦИОН РИВОЖЛАНТИРИШ ЙЎНАЛИШЛАРИ

АННОТАЦИЯ

Мазкур мақолада “инновация” тушунчаси ҳамда унинг қишлоқ хўжалигидаги ўзига хос хусусиятлари очиқ берилган ҳамда ушбу соҳада инновацияларни ривожлантиришга таъсир кўрсатувчи омиллари гуруҳланган ва шу асосда аграр секторида инновацион фаоллигини янада ошириш бўйича амалий тавсиялар ва илмий таклифлар берилган. Қишлоқ хўжалиги соҳасидаги инновацияларни тартибга солиш ва қишлоқ хўжалигининг инновацион фаоллигини оширишга қаратилган чора-тадбирлар тизимини ишлаб чиқишда комплекс ёндашув зарурлиги тўғрисида хулоса қилинган.

Таянч сўзлар: инновация, инновацион фаолият, инновацион жараён, қишлоқ хўжалиги товар ишлаб чиқарувчилари, қишлоқ хўжалиги маҳсулотлари.

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НАПРАВЛЕНИЯ ИННОВАЦИОННОГО РАЗВИТИЯ СЕЛЬСКОГО ХОЗЯЙСТВА

АННОТАЦИЯ

В статье разъясняется понятие «инновация», ее особенности в сельском хозяйстве, группируются факторы, влияющие на развитие инноваций в этой сфере, даются практические рекомендации, а также научные предложения по дальнейшему повышению инновационной активности в аграрном секторе. Сделан вывод о необходимости комплексного подхода к регулированию инновационной деятельности в аграрном секторе и выработке системы мер, направленных на повышение инновационной активности сельского хозяйства.

Ключевые слова: инновации, инновационная деятельность, инновационный процесс, сельхозтоваропроизводители, сельскохозяйственная продукция.

Introduction

It is known that the country has adopted an important document for the further development of our economy in the near and medium term, namely the “Strategy of Action”, which sets tasks in 5 key priorities. In particular, the document is marked as a separate item on the modernization and accelerated development of agriculture in the third area, entitling “Further development and liberalization of the economy”. In addition, in order to develop the field of science, priorities have been set, such as the promotion of research and innovation, the creation of effective mechanisms for the implementation of scientific and innovative achievements in practice [1].

Adoption of the concept of agricultural development includes the solution of all organizational, economic and technological issues in the agricultural sector in the near and long term; investment attraction, sector reformation and sustainable development; it is planned to improve the system of selection and seed production of agricultural crops, the introduction of innovations [2].

Main part

Indeed, given the low level of innovative activity in the agriculture of the country, namely the share of innovative products produced in Uzbekistan in the economy is 1 % [8], for this research on innovative development of this sector is relevant today.

It should be noted that the concept of innovation appeared in the middle of the XIX century, developed in the works of I.Schumpeter, P.Druker, G.Mensh, A.Klayknext, Dj. Van Dayn, B.Santo, B.Twiss and other foreign researchers.

The term of “innovation” was coined by the Austrian economist J.Schumpeter in his “Theory of Economic Development” published 1912, which innovation described as the introduction and use of new types of consumer goods, new production, vehicles, markets and new forms of industrial organization. According to Schumpeter, innovation means the introduction of new products or qualitative improvement of the previous product, the introduction of a new method of production, the opening of a new market, the acquisition of a new source of raw materials, the reorganization of production.

As P.Druker points out, “every entrepreneur is engaged in innovative entrepreneurial activity at their production facility. At the same time, the subjects engaged in specialized innovative activities serve all areas of entrepreneurial activity at their production facility. At the same time, the subjects engaged in specialized innovative activities serve all areas of entrepreneurial activity on the basis of the organization of ways to improve the production process with innovations in the development of science and technology” [4].

Thus, innovative activity is a process aimed at the transformation of completed research and development or other scientific and technical achievements into a new and improved product sold in the market, the implementation of the results of their technological processes used in practice.

Typically, negotiations on the main causes of innovation are considered either “technology push” or “demand pull”, “novelty of proposals” and “novelty of requirements” accordingly. According to Y.Schumpeter and his supporter (K.Freeman, N.Rosenberg, R.Nelson, A.Phillips, etc), scientific and technical conditions are the main causes, while I. Shmukler, G.Mensh, E.Vonxippel and others argue that demand is determining factor.

R.A.Fathuddinov describes innovation as the result of intellectual, scientific, technical or other activities in this area to effectively change the object of management through the introduction of innovations. R.A.Fathuddinov believes that it is possible to form through news, discovery, invention, patent, rationalization proposal, new or improved product, technology, management or production process, organizational, production structure, nau-xau, concepts, scientific approaches or principles, documents (standards, methodologies, guidelines, recommendations, etc.), the results of marketing researches. [5].

D.N.Rahimova believes that “innovation is an idea that has gone through the process of appropriate decision-making and materialized (innovation in the form of its acquisition, introduction or implementation, ideological innovation) [6].

According to M.A.Mahkamova “innovative activity that is the transformation of scientific research into innovation, as a result of chain of interrelated processes, the idea becomes a new product, technology or service and is used in practice as a result of experience, research and development”. This process does not stop once it is applied, because in process of dissemination and implementation, innovations become more sophisticated, effective and acquire new features [7].

Discussion

In general, it can be concluded from the above analysis that the specificity of innovation is related to the creation of value added and its introduction. Thus, innovation consists of components such as science, entrepreneurship, openness to new ideas, intellectual or venture capital. Based on this, four main areas of innovation in agriculture can be distinguished:

- 1) Selection-genetics;
- 2) Production technologies;
- 3) Organizational and management;
- 4) Economic-social-ecological.

Now we will try to highlight the specifics of the innovation process in agriculture. The innovative process in agriculture is conditioned by the specificity of agro-industrial production, including the agriculture that is part of it. These features include:

- diversity of agricultural and processed products, sharp differences in their cultivation and production technologies;
- direct dependence of agricultural production technologies on natural and climatic conditions;
- the period of production of certain types of agriculture and processed products is radically different;
- the existence of disparities in the conditions of production in the regions;
- due to the different social status of agricultural workers, great attention is paid to training and retraining.

The peculiarities of the development of the innovation process in agriculture include:

- a large number of contacts and forms of agricultural producers and innovative structures;
- the fact that many agricultural producers operate separately at all levels (from organizations producing scientific and technical products to enterprises implementing it);
- the lack of a clear and scientifically based organizational and economic mechanism for the transfer of scientific achievements to agricultural producers, which explains the fact that this sector lags far behind in the development of innovations in agro-industrial production.

In general, when analyzing the factors influencing the development of innovation in agriculture, they can be divided into negative (hindering the development of innovation) and positive (helping to accelerate the innovation process) (Figure 1).

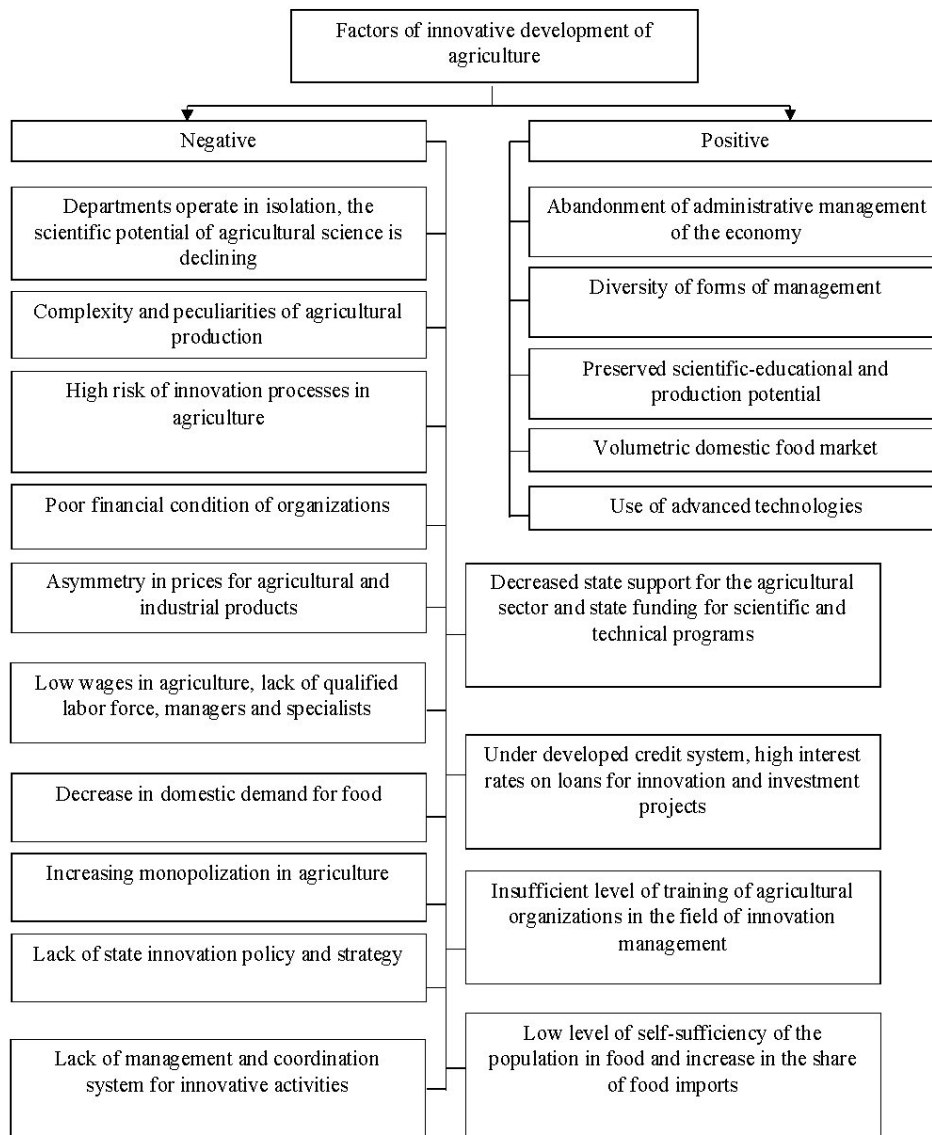


Figure 1: Factors influencing innovative development in agriculture

Factors contributing to the innovative development of agriculture include natural resources, high scientific and educational potential, the existence of a large domestic food market, the ability to produce environmentally and friendly natural food products.

The negative factors are the fact that the departments operate separately and the scientific potential of agricultural science is declining. The agrarian science of the country is characterized by: the complexity of agriculture, poor financial situation of farmers, the disproportionate prices for agricultural and industrial products, low wages in agriculture, lack of qualified personnel managers and specialists, government support for the agricultural sector and a decrease in government funding for scientific and technical programs, underdeveloped lending system, high interest rates on loans for innovation and investment projects. Such features present certain difficulties in agrarian scientific research and in the development of the whole agrarian science.

It should be noted that the complexity and specificity of agricultural production is characterized by a high level of risk of innovative processes in the agricultural sector. The risk of financing research and development results, the risk of temporary gap between costs and results and the uncertainty of demand for innovative products weaken the interest of private investors in investing in agricultural development.

Conclusion and suggestions

In our opinion, in addition to the tasks set out in the government documents adopted for the implementation of the “Strategy of Action” in the country, it is expedient to implement the following measures for innovative development in agriculture:

- State support of scientific and innovative areas (gradual transition of administrative bodies from administrative and managerial functions to innovative activities);
- Adaptation of the activities of scientific institutions to the needs of direct production;
- Activation of all organizational forms of innovative processes to assist agricultural producers in the introduction of scientific and technical achievements;
- Development of specialized agricultural information services for the organization of multifaceted information on scientific achievements, recommendations for their development in production through the involvement of all media (publishing, radio, television);
- Retraining personnel at all levels of the innovation process;
- Development and implementation of a system of economic incentives for further development of innovative processes in agriculture;
- Implementation of state, sectoral and regional scientific and technical programs;
- Further improvement of organizational forms of development of innovation processes and the creation of integrated structures such as techno parks, techno policies, research and production systems, innovation centers, and consulting centers.

Only the implementation of the above set of measures at all levels can increase the innovative activity in the agro-industrial complex, aimed at stabilizing agro-industrial production and the rapid development of the industry.

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