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A NEW IMPULSE IN THE DEVELOPMENT OF THE AGRO-INDUSTRIAL COMPLEX OF KAZAKHSTAN

Sarmanova R.S., Sagatbek S.D.

The implementation of agrarian policy in the Republic of Kazakhstan requires modernization of agriculture, integration of agrarian science and education with the aim of increasing the production of competitive, export-oriented agricultural products and ensuring the country's food security.

In the Address of President Nursultan Nazarbayev to the people of Kazakhstan, "New opportunities under the fourth industrial revolution" is entrusted with revising the role of agrarian universities and making them the centers of dissemination of the most advanced knowledge and best practice in the agro-industrial complex. In this regard, the creation on the basis of agrarian universities of an effective system of transfer and adaptation of foreign technology and knowledge (Extension) is of enormous strategic importance [1].

Most foreign universities are aimed at training highly qualified specialists in the field of agriculture, for example in 1996-2007, within its international training programs and study tours, the University of Western Sydney (UWS) conducted 147 international short education and training programs for 2,251 participants from 15 different countries from the Asia-Pacific region in the areas of broad agriculture and the environment. The goal was to prepare the farming community and extension experts to prepare for changes in livelihoods resulting from the global economy and climate change. And international training programs can make a big contribution to solving problems [2].

Modern digital technologies provide new tools for the development of universities andother educational institutions inall over the world. Digitalization provides opportunities for the exchange of accumulated experience andknowledge that allows people to learn more andto make more informed decisions intheir daily lives. Thanks to digitalization, everyone can now access information previously available only to experts and scientists. The world of education and science has become global, it is now almost impossible to find a student, teacher or scientist who would not visited foreign universities in academic mobility programs. During an unprecedented change, many universities are trying to adapt and find your place on global scientific and educational map, while preserving its unique qualities and competitive advantages.

The questions that universities are facing now are to choice of strategy for

further development and choice of direction, which is planned to focus. It is obvious that the program of digital transformation should now be developed for the transition to competitive in future educational and research model [3].

In the light of the transformation of the S. Seifullin Kazakh Agrotechnical university into a modern agrarian research university of international level, the development of a system of transfer and adaptation of foreign technologies and the dissemination of knowledge acquires particular urgency. Only for the last 4 years on the basis of Kazakh agrotechnical who of the University. S. Seifullin created 5 international centers of competence. This is the Kazakhstan-China Center for Science and Education (within the framework of which a mechanization center for agriculture, a veterinary laboratory, a demonstration plant for the production of potatoes), the Kazakhstan-Belarus Center for Training and Retraining of Engineers, the Kazakhstan-German Precision Farming Center CLAAS, the Kazakhstan-Korean Center GIS-technologies and the International Center in the region aquaculture. Foreign partners of the universityhave gratis provided educational equipment, scientific and educational grants. Our university has learned to attract foreign investments, the volume of which amounted to KZT1.1 bn. for 4 years.

Together with the Chinese colleagues on the basis of KATU, the 2nd Session of the Alliance of Agricultural Education and Scientific Innovations of the Silk Road was held. Together with the Potato Company of Chisen and the Northwest University of Agriculture and Forestry of the People's Republic of China, a demonstration hospital for modern potato cultivation technologies was created on the territory of the Scientific and Experimental Campus for field agricultural works with an area of up to 35 hectares. In July 2017, the opening ceremony of construction and installation works of the joint Kazakhstan-China Biosafety Laboratory at KATU was held.

Our scientists won a grant in the amount of KZT 280 million with co-financing from the business sector of the project, which is aimed at processing livestock farms, in the framework of the contest of groups of senior scientific workers and groups of junior staff of the project "Stimulation of productive innovations" of the Ministry of Education and Science of the Republic of Kazakhstan and the World Bank waste and application in races generation.

Recently, the Office of Commercialization of the University was recognized as the winner of the competition for the selection of commercialization offices of technologies in Kazakhstan universities in the framework of the project "Stimulation of productive innovations". As a result of selection, KazATU was determined by one of 10 universities in the country that became holders of a grant from the Ministry of Education and Science of the Republic of Kazakhstan and the World Bank for a total of KZT 116 million. The main objectives of the grant are to increase the potential of technology commercialization offices, develop the competence of the office and the faculty, consult with foreign specialists, support the patent portfolio and other areas that support the development of the university's innovative activity.

KazATU, with support from UNDP, implemented several extension

projects. In partnership with one of the largest greenhouse complexes of Astana Eco Standard LLP in Astana, the school of greenhouse farming has started, on the basis of which in 2017 more than 200 beginning and operating entrepreneurs were trained. School in the region is launched aquaculture and fish farming, training covers more than 100 subjects of fisheries, it is conducted with a focus on developing the practical skills of students. It means everything that is taught is available in the "hand-on" format. Already today, 2-3 people per seatare registered for study. This experience will undoubtedly have a positive impact on the development of urban and suburban agriculture.

In 2017, in the university structure the Office of Knowledge Extension-KATU was created. Today the brand "Extension-KATU" is a tool for feedback from rural producers to state authorities, research institutes, universities and public organizations on providing access to advanced scientific achievements [4].

Most recently, on behalf of the vice-premier Minister of Agriculture Umirzak Shukeyev, our university has been given a separate status. Now S. SeifullinKazATU will become the scientific and methodological center for digitalization of the agroindustrial complex of the northern main grain-growing regions of Kazakhstan. According to our proposal, two basic farms will be selected in each region - in Akmola, North Kazakhstan, Kostanay, Karaganda regions - where, on the example of farms in the regions, it will be shown what Precision Farming is. Today, the promise of precision farming technology is obvious - its implementation promises to the farms not only huge savings in material, technical, labor and financial resources, but also high productivity, ecological purity of the produced products. This year two projects will be implemented, and each farm will be a kind of center for the dissemination of knowledge of smart technologies.

Based on the main provisions of the current Address of the Head of State on the development of the agro-industrial complex and agrarian science and the problems arising from it, the University notes with certainty that the principled new approaches and platforms created in all the main areas of activity are a good basis for further work aimed at systemic transformation educational and scientific-research process with an output on the decision of practical problems of transfer of technologies.

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