



MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
KAZAKH NATIONAL AGRARIAN UNIVERSITY



New Innovative Approaches to Kazakh Agroindustrial Complex Development: Programm "Agrobusiness- 2020"

T. Yespolov
Rector

Kyiv
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Kazakh National Agrarian University was founded in 1929. Those years a pedagogical community was formed mostly from the scientists and teachers from the leading universities of Russia and Ukraine.



National university of life and environmental sciences of Ukraine



Dombrovskiy B.A.



Dushechkin A.I.



Vasilenko A.O..



Визит Президента ВАСХНИЛ,
академика П.П. Вавилова в Казахстан, 1982



Встреча Президента ВАСХНИЛ П.П.Вавилова с ВО ВАСХНИЛ



KAZAKH NATIONAL
AGRARIAN
UNIVERSITY



NATIONAL UNIVERSITY OF
LIFE AND ENVIRONMENTAL
SCIENCES OF UKRAINE



The leader of our country N. Nazarbayev set essentially new objectives in the strategic plan “Kazakhstan-2050»



- ✓ Professional – technical and higher education should be explicitly oriented to the real needs of economy of Kazakhstan
- ✓ Our research should be raised to the world level and directly connected with the innovative process

New Challenges



Large-scale modernization of agriculture



The development of farmers, small and medium-sized businesses in the agricultural processing and trade



Creation of an international organization "Green Bridge"



The exhibition EXPO-2017 in Astana - a powerful impetus to the country's transition to a "green" way of development



Excretion studies on the global level and providing a direct connection to science innovation process

EXPO 2017
ASTANA

- Agro-industrial complex of the country is focused on exports and provides a dynamic level of production, which greatly exceeds the demand of the domestic market
- In the global index of competitiveness of Kazakhstan occupies 51 place



Republic of Kazakhstan

- Kazakhstan is the 9th largest country in the world. It's territory is 2,725 million km²;
- The sown areas in the country takes more than 25 million hectares, 77% of which is given for the permanent crops;
- Kazakhstan is the world leader of the production of wheat and wheat flour;
- The volume of gross agricultural and industrial production shows the steady upward trend. Over the last 5 years the growth rate of agriculture was about 20% ;
- Further development of the agro-industrial complex of Kazakhstan is aimed the development of the competitiveness of agricultural products by the increase of the efficiency of governmental support and the creation of the equal conditions favorable for the development of agribusiness.

A NEW BRANCH PROGRAM "AGRIBUSINESS IN 2020."

Total for the program is required for \$ 20 Billion



THE MAIN CHALLENGES FOR THE AGRICULTURE OF THE COUNTRY

- To increase the area under crops, since such a possibility has not all countries;
- To ensure an increase in productivity through the introduction of new technologies;
- To create forage for livestock;
- To create a national competitive brands with a focus on sustainability.

The State Program of Forced Industrial Innovative Development

There comes a time when it was the scientists, researchers and scientists need to make the most decisive contribution to the development of Kazakhstan

*The President of the Republic of Kazakhstan Nursultan Nazarbayev
From a speech at the Forum of Scientists*

1. provide more than 80% of the domestic market with food products of domestic production, which will reduce the dependence of the internal market of food from other countries;
2. increase the added value for the output to 16%;
3. improve productivity in agriculture is 2 times;
4. increase the export potential of agricultural products in total exports of the country up to 8%.

FORWARD-LOOKING MACROECONOMIC AND SOCIAL EFFECT OF THE PROGRAM

- Physical production of agricultural products by 1.5 times;
- Increasing labor productivity per person employed in agriculture 3 times;
- The increase in export revenue from the sale of agricultural and industrial production by 20%;
- Achieving food independence of basic food products at 80% of the domestic market;
- Attracting more than 65 billions in dollars of private funds into the sector.

Strategic plan development till 2020

- **Export potential of the agricultural sector to increase to 8% of total exports;**
 - **Labour productivity in agriculture will increase by at least 2 times;**
- **Increase the proportion of meat processing up to 27%, milk-up to 40%, fruits and vegetables, and 12%.**

WATER-SAVING TECHNOLOGY

In Kazakhstan increased the area of application of water-saving technology, and this year they have exceeded 12 million hectares.



According to experts of the International Centre for Maize and Wheat Improvement (CIMMYT) , Kazakhstan took the 9th place in the world in the areas of application of zero technology, and the pace of spread of moisture saving technologies - on the 2nd place after China.

According to the same estimates, an increase in the yield of wheat from the use of these technologies in Kazakhstan in the current year amounted to 720 thousand tons, or about 220 million U.S. dollars.



Active integration into the agrarian scientific-production consortium



The Consortium comprises the national management holding «KazAgro», regional social-business corporations, national companies, 24 scientific research institutes of the Ministry of Agriculture of the RK and 10 scientific research institutes of the Ministry of Education and Science of the RK



Dynamic integration into the international scientific and educational community



We have created an international scientific and educational consortium with the support of universities and research centers in 70 countries of Western and Eastern Europe, America, the Asia-Pacific region, South and South-Eastern Asia and CIS countries where scientists of the University together with foreign colleagues are conducting research on global problems of humanity, related to biological resources and environmental management.



KAZAKHSTAN-JAPANESE INNOVATION CENTER

Kazakhstan-Japanese Innovation Centre established in 2010 in joint cooperation with the leading Japanese corporate groups JEOL and Shimadzu is the university's pilot project department.



Laboratories of Kazakhstan – Japanese innovation center



Food and ecological safety



Teaching and
diagnostic



Radiobiological safety



Engineering profile «Electronic
microscopy»



Water quality assessment ¹⁷

Equipment of **Kazakhstan-Japanese innovation center**



System of identification for Sherlock microorganisms based on gas chromatograph



Atomic absorptive spectrophotometer AA-7000F (Shimadzu)



Transmission electron microscope JEM-1011, complete with a CCD - digital camera Morada (OLYMPUS)



Low vacuum scanning electron microscope JSM-6510LA

Kazakhstan-Korean innovation center for "green technologies" development is founded with the aim of integration of education, science and production in agricultural branch of Kazakhstan and Korea:

- ensuring joint participation of scientists in developing programs of fundamental and applied directions;
- rendering necessary technological support for greenhouse complex management;
- conducting exchange of scientists, lecturers and specialists for professional development and training.



DEVELOPMENT OF EDUCATIONAL AND SCIENTIFIC INFRASTRUCTURE



- University is developing the agro-technical park and 31 research laboratories. There were established 4 innovative centers:
 - «Agro-engineering problems and energy supply»;
 - «Landscape- adaptive technologies in agriculture»;
 - «Rational use of nature resources»;
 - «Raising animals and problems of veterinary».
- The activities of these centers allowed to increase the financing of the scientific projects in 2011 up to **7 million US dollars**.



**Welcome to Kazakh National Agrarian University for
cooperation!**

Thanks for attention !

