



STAVROPOL  
STATE  
AGRARIAN  
UNIVERSITY

# Stavropol State Agrarian University the Sustainable Development Goals Report





STAVROPOL  
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— 1930 —

## Authors:

Sitnikov Vladimir Nikolaevich,  
Atanov Ivan Vyacheslavovich,  
Bobryshev Alexey Nikolaevich,  
Sklyarov Igor Yuryevich,  
Lisova Olga Mikhailovna,  
Frolko Dmitry Sergeevich,  
Nogin Sergey Romanovich,  
Esaulko Alexander Nikolaevich,  
Gunko Julia Alexandrovna,  
Anikuev Sergey Viktorovich,

Skripkin Valentin Sergeevich,  
Ryakhovskaya Oksana Sergeevna,  
Kostyukova Elena Ivanovna,  
Kusakina Olga Nikolaevna,  
Kulaev Egor Vladimirovich,  
Ivolga Anna Grigoryevna,  
Tarasova Svetlana Ivanovna,  
Steklov Alexander Nikolaevich,  
Oleinik Sergey Alexandrovich,  
Maximovich Svetlana Alexandrovna,

Sevostyanova Olga Igorevna,  
Tunina Nelly Alexandrovna,  
Fedisko Olga Nikolaevna,  
Ivashova Valentina Anatolyevna,  
Samoilova Alina Igorevna,  
Romanenko Yulia Alexandrovna,  
Avakian Vladimir Artemovich,  
Masalov Sergey Valeryevich,  
Buzova Daria Valeryevna,  
Abbasova Farida Faigovna,  
Melnikova Olga Viktorovna,  
Obnovenskaya Marina Vasilyevna

APPROVED  
First Vice-rector



  
Atanov I.V.

## MISSION

To become the leader of the advanced training of the regional agrarian elite, able to effectively implement the tools of innovative, technological and digital transformation of the agro-industrial complex, contribute to the sustainable spatial development of the south of Russia, preserve and increase the moral, cultural and scientific values of our society.

## STRATEGIC GOAL

Transformation into an entrepreneurial-type University, embedding (integrating) agro-drivers (biologisation of agriculture, breeding, animal genomics, digitalization, advanced training for agriculture) in the processes of ensuring sustainable development of Stavropol Krai and the North Caucasus Federal District. Building a new role of the University as a leader in the transfer of research, production, educational and digital technologies aimed at the sustainable development of Stavropol Krai and the North Caucasus Federal District.





# 1 NO POVERTY



**Goal 1: End poverty in all its forms everywhere**



# Goal 1: End poverty in all its forms everywhere

## The University's activities in the field of the universal elimination of poverty in all its forms

Within the framework of achieving the sustainable development goal "Goal 1: End poverty in all its forms everywhere", the university implements :



**Social support projects for children left without parental care**



**Social support projects for the elderly**



**Project to support children being treated in hospitals**



**Scholarship support for student achievements**

Студентам Выпускникам Сотрудникам

ЦЕЛЬ РАЗВИТИЯ > ЛИКВИДАЦИЯ НИЩЕТЫ

Ликвидация нищеты

Проекты социальной поддержки детей, оставшихся без попечения родителей

Проекты социальной поддержки пожилых людей



## SSAU is a platform for free projects for students to improve competitiveness in the labor market

### Who can take free training?

- Citizens aged 50 years and older, citizens of pre-retirement age;
- Women on parental leave under 3 years of age;
- Women who are not in an employment relationship and have preschool children aged 0 to 7 years inclusive;
- Unemployed citizens registered with the employment service;
- Employees at risk of dismissal, including the introduction of part-time work, downtime, temporary suspension of work, the provision of leave without pay, measures to release employees
- unprotected layers of citizens

Федеральный проект «Содействие занятости» национального проекта «Демография» направлен на помощь гражданам повысить квалификацию и востребованность на рынке труда, сменить профессию или открыть свое дело в качестве ИП или самозанятого.

Цель проекта: содействие занятости отдельных категорий граждан путем организации профессионального обучения и дополнительного профессионального образования для приобретения или развития имеющихся знаний, компетенций и навыков, обеспечивающих конкурентоспособность и профессиональную мобильность на рынке труда.

Ознакомиться с условиями и перечнем программ можно на сайте ЦОПП

[Сайт ЦОПП](#)

Выбрать программу обучения и подать заявку можно на портале «Работа в России»

[Работа в России](#)

По всем вопросам реализации программ СтГАУ и ЦОПП вы можете обращаться по телефону: 8-(8652)-31-59-59

### Проекты



Программы опережающей подготовки

#### Федеральный проект «Содействие занятости»

Пройдите бесплатное обучение в рамках федерального проекта «Содействие занятости» или переподготовку по выбранной профессии для повышения конкурентоспособности на рынке труда.

[https://vk.com/wall-202437107\\_761](https://vk.com/wall-202437107_761)

<https://copp26.ru/calendar/proyditе-besplatnoe-obuchenie-po-programmam-stgau-i-tsopp-v-ramkakh-fp-sodeystvie-zanyatosti/?ysclid=m20ltitu9461038805> ,  
(started at 2023)



# Free retraining programs based on SSAU



## FARMER'S SCHOOL

- 6 streams
- more than 100 prs.

50+  
popular areas of study

90%+  
students remain in the agribusiness industry

10 000+  
graduates defended their business plans

"Farmer's School" is a federal project aimed at increasing professionalism in the agro-industrial complex.

The project is implemented by the Ministry of Agriculture of the Stavropol Territory, the regional branch of JSC "Rosselkhoz nadzor" and Stavropol State Agrarian University.

<https://stgau.ru/media/news/zapushhen-novyi-nabor-slusatelei-v-proekt-skola-fermera>

<https://svoefermerstvo.ru/farmers-way/school>



ШКОЛА  
ФЕРМЕРА





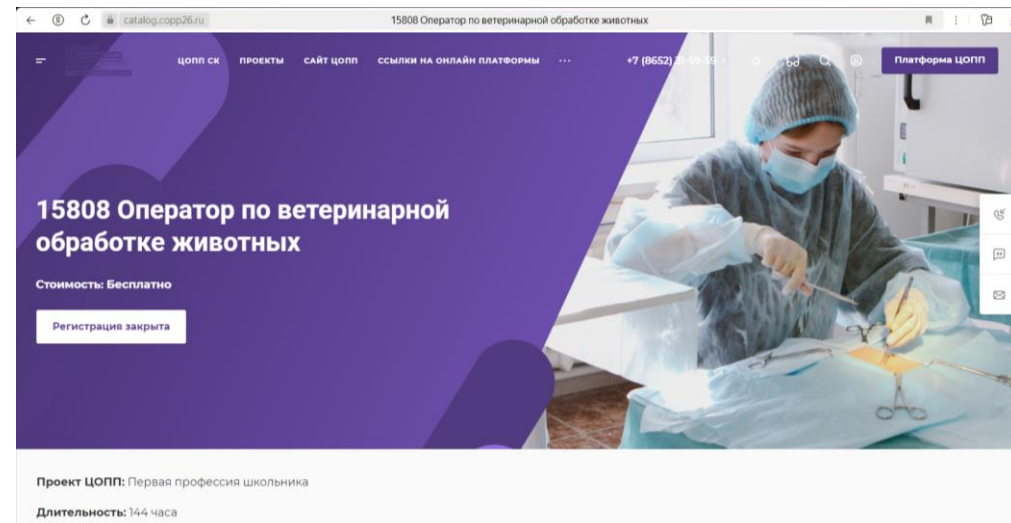
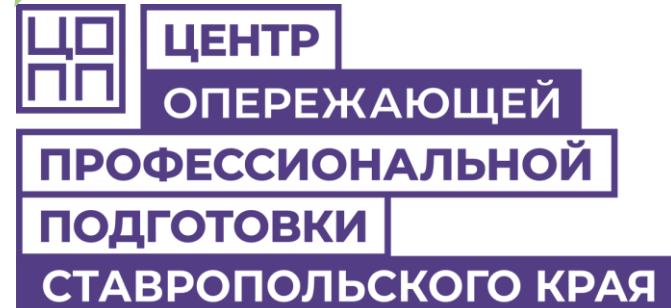
## CAPT of the Stavropol Territory is a universal navigator on the education and labor markets



The main task of the Center is to coordinate the use of material, technical and human resources of educational institutions in the region for the education of children and adults in accordance with the prospects for the development of the economy of the country and the region.

The Center implements a number of free educational programs for children and adults :

- <https://catalog.copp26.ru/shkolnikam/15415-ovoshchevod/>
- <https://catalog.copp26.ru/studentam/18111-sanitar-veterinarnyy/>
- <https://catalog.copp26.ru/shkolnikam/12901-konditer/>
- <https://catalog.copp26.ru/shkolnikam/16437-parikmakher/>



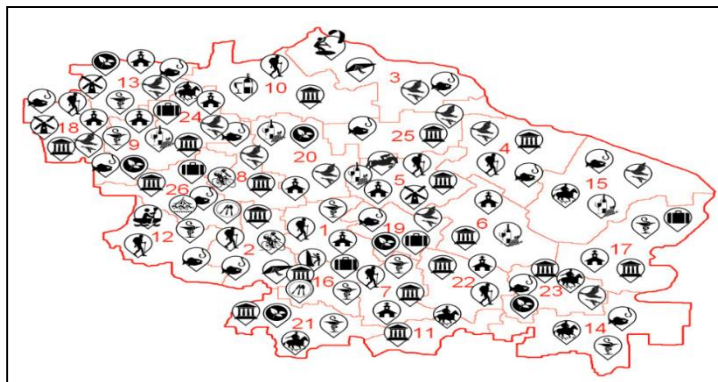


## The project “Development of innovative types of tourism in Stavropol Krai”

1. Study and analysis of the resource potential of the region



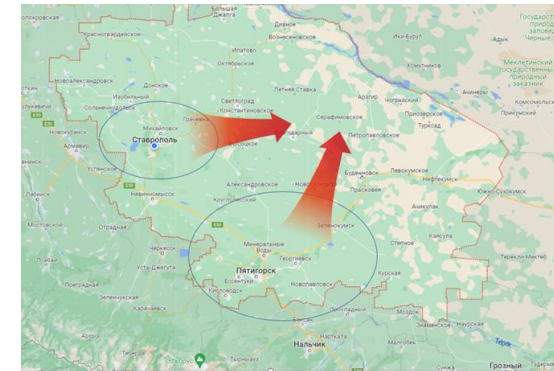
3. Ranking of different types of tourism by priority of development for the district



4. Creating a “Portrait” of a tourist KMV (CMW) and positioning of the behavior



2. Adjusting the direction of tourist flow throughout Stavropol Krai



## Strategic objectives

- Increase the tourist flow to 5 million in the region
- Development of indirect 54 industries
- Increase the number of job positions in tourism to 45 thousand people

Number of job positions in the tourism sector, %

WORLD

9,1

RF

3,4

SK

4,5



Scopus

РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index

1 NO  
POVERTY



Formation and Functioning of the Milk Market of the Leningrad Region as a Specific Form of Implementing the Sustainable Development Concept  
O. N. Kusakina, Yu. Yu. Blinova  
Natural Sciences and Humanities Research  
2025

Uglitskikh O.N., Glotova I.I., Sizon Yu.E., Tomilina E.P.  
“Evaluation of the Implementation and Development of Agricultural Lending in Russia” Springer, LNNS, ISAS 2025



**2** ZERO  
HUNGER



## Goal 2: Zero Hunger

# Goal 2: Zero Hunger

**Modern trends in the development of agriculture determine the directions of research and development and educational programs in SSAU**



GENETICS AND ACCELERATED BREEDING



BIOLOGIZED AND ORGANIC AGRICULTURE



BIOTECHNOLOGIES



AUTOMATED UNMANNED COMPLEXES AND  
PRECISION FARMING



DIGITALIZATION AND THE ROBOTIZATION OF  
AGRICULTURE



In 2025, the university launched 9 new higher education programs and updated the content of 6 existing ones. **New programs introduced in 2025**



- 09.03.02 Information Systems and Technologies — Engineering of Artificial Intelligence Systems.
- 35.03.11 Land Reclamation — Land Reclamation.
- 36.05.01 Veterinary Medicine — Veterinary Medicine.
- 38.03.01 Economics — Agricultural Economy and Management.
- 38.04.01 Economics — Economics and Management in Agribusiness.
- 38.04.02 Management — Management of Rural Development Projects.
- 09.04.02 Information Systems and Technologies — Development and Support of Information Systems in the Agro-Industrial Complex.
- 19.03.01 Biotechnology — Biotechnology.
- 35.04.05 Horticulture — Horticulture.

The educational portfolio includes 103 higher education programs: **50 bachelor's, 48 master's, and 5 specialist programs.**

The programs reflect labor market demand in the Stavropol Krai and North Caucasus Federal District.

**Priority areas include sustainable rural development, digitalization of agriculture, and modern methods for agricultural production.**

Results of the Scientific Center of World Level “Agroengineering of the Future” are integrated into educational programs.

## Priority scientific directions

### Scientific research and development

**35** scientific schools and directions  
on **11** branches of science

**6** land plots **9451,6 ha**

### The main topic

development of a resource-saving biologized farming system that ensures an increase in plant yields and animal productivity, a reduction in the cost of production and an increase in the profitability of agricultural production, as well as an increase in soil fertility and an improvement in human habitat

### Strategic projects



Breeding and genetics of dairy cattle



Breeding and nursery of fruit and berry crops.



Digitalization and biologization of agriculture  
Integrated rural development



At the university, a **World-Class Scientific Center** “Agro-Engineering of the Future” has been established.

Research is carried out in four key areas:

- technologies for controlled crop cultivation in protected soil;
- unmanned systems for monitoring and differentiated application of crop protection products;
- robotic technological solutions for field farming;
- robotic technological solutions for horticulture.



**Esaulko  
Alexander Nikolaevich**

Director of the Institute  
of Agrobiological and  
Natural Resources



**BREEDING AND GENETICS  
IN CROP PRODUCTION.  
BIOLOGIZATION OF AGRICULTURE**



Provision of planting material and  
new varieties of fruit and berry  
crops



**Oleinik  
Sergey Alexandrovich**

Professor of the  
Department of  
Zootechnics, Breeding of  
animals



**BREEDING AND GENETICS  
IN ANIMAL HUSBANDRY**



Analysis of the genetic potential of  
dairy cattle and creation of a  
breeding core



**Gunko Julia  
Alexandrovna**

Dean of the Faculty of  
Economics



**SUSTAINABLE RURAL  
DEVELOPMENT**



Monitoring the effectiveness of state and  
regional rural development programs



## Agrobiotechnology Center



### Mother plantings



0.2 ha of berry crops



0.5 ha of clonal rootstocks



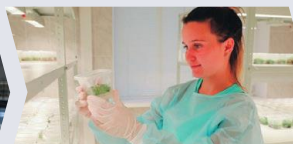
1.0 ha of mother-cuttings garden



### Production of virus-free seedlings



Laboratory of Biotechnology



2 light rooms



Greenhouse complex 0.3 ha



### Approbation of the produced seedlings



0.12 hectares of Trellis garden



0.14 hectares of Strawberries

## I stage (2021-2025)

Development of technology for accelerated production of virus-free planting material

### Product results

- ◆ 9 thousand of virus-free rootstocks of fruit crops
- ◆ 2 thousand of raspberry and blackberry seedlings
- ◆ 2 thousand of pieces of virus-free strawberry planting material
- ◆ 4 new biologics



### ◆ 2 Bachelor's degree programs

- Agronomy – Genetics and breeding
- Horticulture – Fruit growing, vegetable growing and viticulture

### 3 Master's degree programs

- Agrobiotechnology in horticulture and nursery production
- Biologized technologies in traditional and organic farming
- Integrated protection and nutrition system for vegetable crops in protected ground

### ◆ 1 special Master's degree program

### ◆ 7 APE programs



Strategic technological projects in the field of cattle breeding are aimed at developing and implementing innovative technologies that ensure effective management and sustainable development of breeding resources.

**The main goal** of this area is to create a comprehensive technological solution that will improve the accuracy of breeding work, optimize reproduction processes, and ensure the long-term preservation of the genetic potential of farm animals.

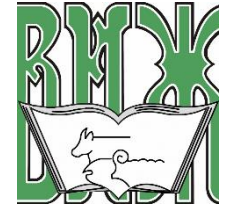




## Institute of Agricultural Genetics and Breeding

- ✓ Laboratory of Molecular Genetic Examination
- ✓ Genetics and breeding in animal husbandry

### Partners



- The laboratory uses innovative genetic methods for studying the genome of farm animals and enables students to practice **modern technologies for detecting and monitoring DNA genetic abnormalities.**

- The laboratory is equipped with a full-genome sequencer **DNBSEQ-G400 TM**, and low pass sequencing is presented as a promising technology for genotyping breeding livestock.

- **The laboratory supports genetic selection of breeding cattle and genomic selection.**



## Strategic project “Development of a set of innovative solutions for cultivating commercial varieties of fruit and berry crops for the scientific and technological development of horticulture in the South of Russia”

Problems of sustainable development of agriculture that led to the launch of the project

*in the field of breeding and nursery breeding*

- **Lack** of clean lines of high reproductions of planting domestic material for high-intensity gardening
- **Dependence** of domestic agricultural producers on imports of seed and planting material



- **Shortage** of qualified specialists in the field of horticulture and horticulture of fruit and berry crops

*in the field of digitalization and biologization of agriculture*



- **Reduction of ecological sustainability of agricultural landscapes and deterioration of the phyto-sanitary condition of crops**

- **Degradation of soil cover and reduction of soil fertility** (negative balance of nutrients reached 120-140 kg/hectare)
- **72% of land areas in the region are subject to water and wind erosion**
- Desertification processes are observed on an area of 580 thousand hectares

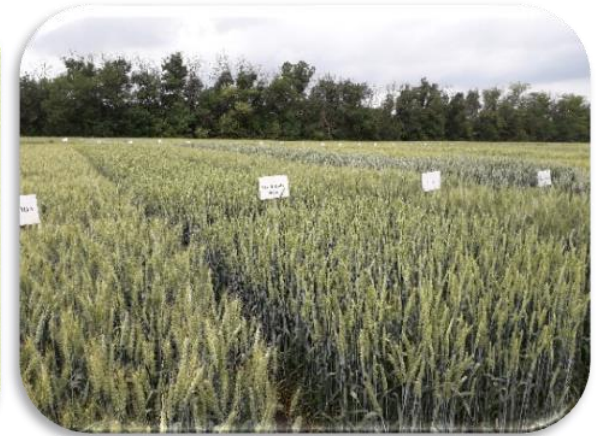


- **Low level** of application of digital technologies in agriculture



## Selection and seed production of agricultural crops: results

- **Creation of a Center for Breeding and Seed production**
- Breeding machinery and equipment purchased
- The network educational program of the master's degree "Selection and seed production of agricultural crops" has been opened with **FSBSI "North Caucasian FNAC"**
- **A patent for a variety of winter wheat FIB 5 was obtained**
- Testing of new hybrids and varieties of agricultural crops together with **Soyuszsemsekla, Agroplasma , "Corn Research Institute"**
- Creation and implementation of adapted, complexly resistant varieties, hybrids, forms and lines of agricultural crops
- **Applications for patents for new varieties have been filed: amaranth "Vector", annual white clover "Stavropol", winter soft wheat "Kumanochka", triticale from the North Caucasian FNAC, Dagestan State Agrarian University**
- A variety study of 42 varieties of grain and leguminous crops of various breeding centers is being conducted together with **"State Transport Commission"**





# Scientific projects for the sustainable development of agriculture

## Corn

- joint adaptation of educational programs
- organization of internships for students
- a platform for testing varieties



## Sugar beet

- creation of a joint laboratory for breeding and genetics
- joint adaptation of educational programs
- organization of internships for students
- a platform for testing varieties



СОЮЗ  
СЕМСВЕКЛА

## Fruit trees

- joint work on the organization of fruit nurseries
- microcloning of varieties and planting material of fruit crops
- creation of new varieties of rootstocks
- a platform for testing varieties



ЕВРОПЕЙСКИЕ  
САДЫ

## CUSTOMERS



the system for assessing the qualifications of agronomists in the territory of 12 regions of the Russian Federation



СТЕПЬ  
АГРОХОЛДИНГ

development of new agricultural technologies for growing grain crops



ПЕТРОВСКОЕ

serial production of a dosing device for sowing complexes



ВКУС  
СТАВРОПОЛЬЯ

microcloning of varieties and planting material of berry crops



## Biologization and digitalization of agriculture: results

- **Master's degree programs are open**  
"Biologization of agriculture in organic and traditional agriculture", "Integrated plant protection systems from harmful organisms", "Integrated protection and nutrition system of vegetable crops in protected soil" - network with **АИХ "Ecoculture"**
- Wins in the All-Russian competition "Student startup" - 4 million rubles.
- A precision farming laboratory
- A landfill for the production of organic fertilizers based on waste and vermicomposting.
- The study of the effectiveness of biological products in the system of protection of agricultural crops together with **Inopraktika LLC, Tambov Research Institute**
- **A digital model of agricultural land use**
- **Patents for 4 new multifunctional biological products**
- Recommendations have been developed for the introduction of elements of nature-like technologies for maintaining and restoring soil fertility
- We developed a technique for diagnosing the phytosanitary condition of agricultural crops based on hyperspectral analysis
- **Accredited laboratories in 6 regions have carried out research projects on an area of more than 500 thousand hectares**

  
**ЭКОКУЛЬТУРА**  
АГРОПРОМЫШЛЕННЫЙ ХОЛДИНГ





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РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index



Modeling of Long-Term Carbon Sequestration by Arable Chernozem: Integrated Effects of Fertilization and Tillage

Husniev, I., Sitnikov, V.N., Esaulko, A.N., Yakimenko, O.S., Romanenkov, V.A.

Eurasian Soil Science

2025

Determining the Composition of Integrated Reporting Indicators Under Uncertainty: Innovation-Driven Convergence of Economic, Managerial, Social, and Environmental Contexts

Erokhin, V., Bobryshev, A.N., Tianming, G., Malinovskaya, N.V., Zargaryan, N.R.

Journal of the Knowledge Economy

2025

The Symbiotic Bacterium *Serratia liquefaciens* Enhances the Development of *Bacillus thuringiensis* Bacteriosis in Colorado Potato Beetle Larvae by Alkalinizing the Midgut pH

Artemchenko, A.S., Klementeva, T.N., Khodyrev, V.P., Sitnikov, V.N., Glupov, V.V., Polenogova, O.V.

Microbiology

2025

Innovative Technologies for Food Security in the Arid Territories of Southern Russia

Nazirkhan, G., Gilyan, V., Ryazantsev, I.I., Abdurakhman, G., Tatyana, E.

South of Russia: Ecology, Development

2025

Concept of a Multilevel Network Infrastructure for Monitoring Agricultural Facilities Based on Wireless Sensor Networks

Samoylenko, V.V.

Advanced Engineering Research

2025

The Central Asia–China–Russia Nexus: Challenges of the New Normal to Ensuring Sustainable Development in the Region

Erokhin, V., Tianming, G., Ivolga, A.G.

Palgrave Handbook of Practical Sustainability

2025

Integrated Development of Rural Areas in a Geostrategic Region of Russia Under Urbanization and Infrastructure Constraints

Gerasimov, A.N., Skripnichenko, Y.S., Kapustina, E.I., Lelikova, E.I., Skripnichenko, V.Y.

Lecture Notes in Networks and Systems 2025



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Science Index



Factor Analysis of Critical Points of Agribusiness Development in the South of Russia  
Tufanov, E.V., Reimer, V., Isaenko, A.P., Antonova, I.Y., Kizilova, N.I.  
Lecture Notes in Networks and Systems  
2025

Integrating Low-Intensity Laser Radiation for Sustainable Farming  
Rubtsova, E.I., Afanasyev, M.A., Yanovskiy, A.A., Bogolyubova, I.A., Lyubaya, S.I.  
Lecture Notes in Networks and Systems  
2025

Comparative Analysis of Vegetation Indices on Agricultural Images of Different Modalities  
Lyakhov, P.A., Orazaev, A.R., Arustamyan, V.A., Odintsov, S.V., Esaulko, A.N.  
Lecture Notes in Networks and Systems  
2025

Analysis and Trends of Agricultural Development Under the Conditions of Digitalization  
Nizamutdinov, M.M., Parfenova, K.A., Khaliullin, A., Rotanov, G.N., Kartavtseva, I.  
Lecture Notes in Networks and Systems  
2025

Professional Goal-Setting of Agricultural Education Graduates as a Factor of Sustainable Rural Development  
Karpenko, I., Lesnikh, Y.G., Chudnova, O.A., Kalashova, A., Ivashova, V.A.  
Lecture Notes in Networks and Systems  
2025

Sustainable Practices for Enhancing Pea Productivity Through Biological Preparations in Southern Russia  
Shabaldas, O.G., Shutko, A.P., Maznitsyna, L.V., Golub, A.S., Glupov, V.V.  
Lecture Notes in Networks and Systems  
2025



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НАУЧНОГО ЦИТИРОВАНИЯ



Science Index



Prospects for Breeding the Black Soldier Fly to Address Protein Nutrition Problems in Organic Agriculture  
Samokish N.V., Skripkin V.S., Kvochko A.N., Seryy N.V., Rastovarov E.I.  
Bulletin of KrasGAU  
2025

Prospects for Russian Poultry Meat Exports in the New Geopolitical Environment  
Kapishnikov A.M., Vorobyeva N.V.  
Agrarian Bulletin of the Urals  
2025

Study of the Physiological Effectiveness of Bio-Expressors for Specialized Nutrition Diets in Laboratory Animals  
Sidorenko A.Yu., Orobets V.A., Kastarnova E.S., Kambarov A.O., Sidorenko M.Yu., Shterman S.V., Tokarev P.I., Eliseeva L.G., Selezneva L.V., Nikiforov-Nikishin D.L., Smorodinskaya S.V., Klimov V.A.  
Food Industry  
2025

Sports Nutrition and Recovery: Key Nutrients and Supplements for Effective Regeneration  
Shlykov S.N., Sycheva O.V., Omarov R.S., Trubina I.A., Skorbina E.A.  
Human Physiology  
2025

Assessment of Genetic Parameters in a Jersey Cattle Subpopulation Based on STR Marker Analysis and Their Potential Influence on Variability in Animal Development Traits  
Oleinik S.A., Lesnyak A.V.  
Agricultural Biology  
2025

Optimization of Tomato Mineral Nutrition Using Biologically Active Substances  
Selivanova M.V., Esaulko A.N.  
Agrarian Scientific Journal  
2025

# 3 GOOD HEALTH AND WELL-BEING



**Goal 3:  
Ensure healthy lives and  
promote well-being for all at all  
ages**



Infrastructure and services have been created at the university to promote a healthy lifestyle and the well-being of employees and students. Gyms and psychological services are available to everyone.

Programs are being implemented to involve employees in physical education and sports.

**University students can choose to attend the following sports and fitness sections:** chess, swimming, darts, badminton, table tennis, fitness, mountain hiking, aerobics, volleyball, basketball, football, yoga, shaping, powerlifting, sambo, boxing, freestyle wrestling, Greco-Roman wrestling, arm wrestling, kettlebell lifting, athletics, weightlifting, shooting, and tourism.



The student sports club is engaged in popularization and promotion of an active lifestyle. It consists of more than **300 people**. The club's activists are multiple prize-winners of the North Caucasus Federal District, Russia, Europe and the world in various types of martial arts, team and personal sports.

<https://stgau.ru/students/sport?ysclid=m20o06i9au523532871>



At the WP Powerlifting World Championship, **Nina Mukhortova** of Stavropol State Agrarian University won the open bench press category up to 64 kg with 75 kg in the 55–59 age group and became the **absolute world champion of 2025**.

<https://stgau.ru/media/news/prepodavatel-stgau-stala-cempionkoi-mira-po-pauerliftingu>



Volleyball players from Stavropol won the interuniversity World Championship in Paris

<https://stgau.ru/media/news/sportsmeny-stgau-stali-pobediteliami-kubka-evropy-po-pauerliftingu1>



## Student volunteers and well-being support



A volunteer team from Stavropol Krai is helping respond to an emergency situation at the Bugaz Spit on the Black Sea coast.

All of the team 10 members are active students of Stavropol State Agrarian University. The students are between 18 and 22 years old, and each of them already has several years of volunteer experience.

<https://atvmedia.ru/news/education/65228>



The purpose of the psychological service is to preserve the mental and psychosomatic health of students, the formation of a conscious and responsible attitude to their health.

Make an appointment for a consultation by phone: 31-59-46.

The psychologists' office was equipped with new equipment. In particular, a diagnostic system and a set for audiovisual stimulation will be used for the rehabilitation of those who have applied for moral help. The psychological center includes a mobile laboratory.

- [https://vk.com/wall-215489923\\_15688](https://vk.com/wall-215489923_15688)
- <https://old.stgau.ru/psiholog/>



## World Health Day

SSAU celebrated World Health Day On April 7, on World Health Day, many sports events took place at all sports grounds of SSAU.

- [https://vk.com/ssckolos?w=wall-100286681\\_4588](https://vk.com/ssckolos?w=wall-100286681_4588)



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РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index

3 GOOD HEALTH  
AND WELL-BEING



Young People's Reproductive Health in Rural Areas of Russia: Research Through the Prism of Values

Chvalun, R.V., Malamatov, A.K., Konopleva, A.N., Asatryan, S.S., Lesnikh, Y.G.

Siberian Journal of Life Sciences and Agriculture  
2025

Sports Nutrition and Recovery: Key Nutrients and Supplements for Effective Regeneration

Shlykov S.N., Sycheva O.V., Omarov R.S., Trubina I.A., Skorbina E.A.  
Human Physiology  
2025

Assessment of the Therapeutic Efficacy of Supramil Emulsion in Nematode and Cestode Infections in Dogs and Cats

Orobets V.A., Sevostyanova O.I., Zaichenko I.V., Mukaseev S.V., Zeynalov O.A.  
Veterinaria i Kormlenie  
2025

# 4 QUALITY EDUCATION



**Goal 4:  
Ensure inclusive and  
equitable quality education  
and promote lifelong  
learning opportunities for  
all**

## Stavropol SAU today

### Institutes and faculties

8



### postgraduate study

23

specialties



The best university in the North  
Caucasus and is among the top 2  
agricultural universities in Russia



Subject ratings "Three missions of the  
University": agriculture (top 3 in  
Russia)



Winner of the EFQM  
"Excellence Award - 2016" Prize

**приоритет2030<sup>^</sup>**

**лидерами становятся**

Territorial and/or industry  
leadership



Targeted training of personnel for  
key sectors of the economy



3-time winner of the award

### higher education

42

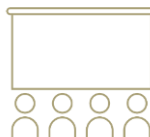
degree programs



### SPE

22

specialties



## Strategic goal

Achieving leadership in agricultural education that meets the current and future needs of the individual, society and the state, equally accessible to all potential target audiences through the formation of a single open educational space for training personnel capable of effectively implementing the tools of innovative, technological and digital transformation of the agro-industrial complex, contributing to the sustainable spatial development of the South of Russia

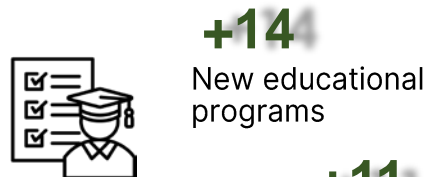
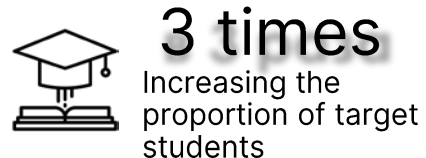
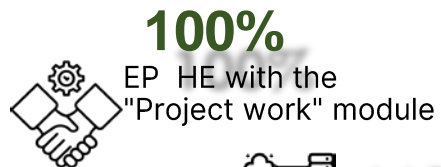


## Key priorities and directions

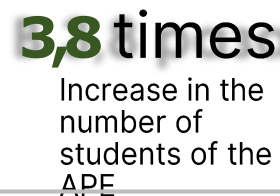
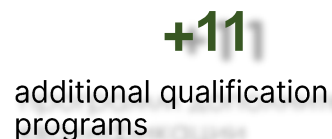
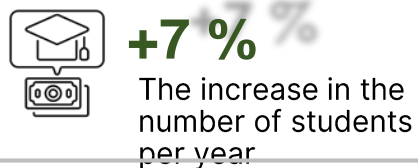
1. Formation of the infrastructure of the program "Agroinopolis-2030" in order to conduct early career guidance work for the self-determination of schoolchildren of Stavropol Krai in choosing future professional activities
2. Modernization of the content, technologies and conditions for the implementation of educational programs "Agrokadry-2030" aimed at training qualified personnel for the implementation of socio-economic development strategies of the region and national projects of Russia
3. Formation of conditions for the introduction of advanced educational technologies that allow for creative, educational, educational and volunteer practices of the strategic program "Agroinopolis-2030»
4. Creating conditions for the implementation of project activities in the field of biologization, animal genomics, digitalization, territorial development, involving the implementation of full life cycle projects by students within the framework of formal and informal education
5. Improving the system of involving University partners in the development of professional socialization, employment and building a professional career of graduates during the implementation of the Agroinopolis-2030 program

## Educational policy 2021 – 2025

### Current situation



students are enrolled in programs related to the formation of digital competencies



### Organizational structure

**3**  
Institutes

- Agrobiology and natural resources veterinary and biotechnology agricultural genetics and breeding

**1**  
faculty

- Information technology

### Management of innovative educational programs

### Aspirations

приоритет2030^

лидерами становятся



**100 %**

Strengthening industry specifics

**50 %**

Increasing the target enrollment of students

**1,5 times**

Increased

**+7%**

Average exam score

### The toolkit

#### Online educational programs

- broadcasting best practices deficits - benefits increasing the attractiveness of EP



Global agricultural markets



ФИНАНСОВЫЙ УНИВЕРСИТЕТ

Digital finance and accounting technologies

ЭКО-КУЛЬТУРА

Integrated protection and nutrition system for vegetable crops in protected ground



Tourism Economy \* EP of two diplomas

2025\*



Modern breeding and genetic research methods in animal husbandry

EP

Widespread

Elite

- Digital content development
- Additional qualifications
- Project activities
- Variability of exams

- Network forms of implementation
- Digital content development
- Transfer of results of strat-projects
- Variability of exams

#### Digital content development

- development of our own online courses and testing of the blended learning model

20

online courses

938

students

41

programs HE



#### Additional qualifications

- The project "Digital Department" Additional qualification within the framework of the GEP APE programs

5

программ ЦК

31

программ доп.квалификации

#### Transfer of results of strat-projects

The launch of new educational programs for higher education in the areas of strat-projects: knowledge transfer + training for AE Educational programs as a tool for AE

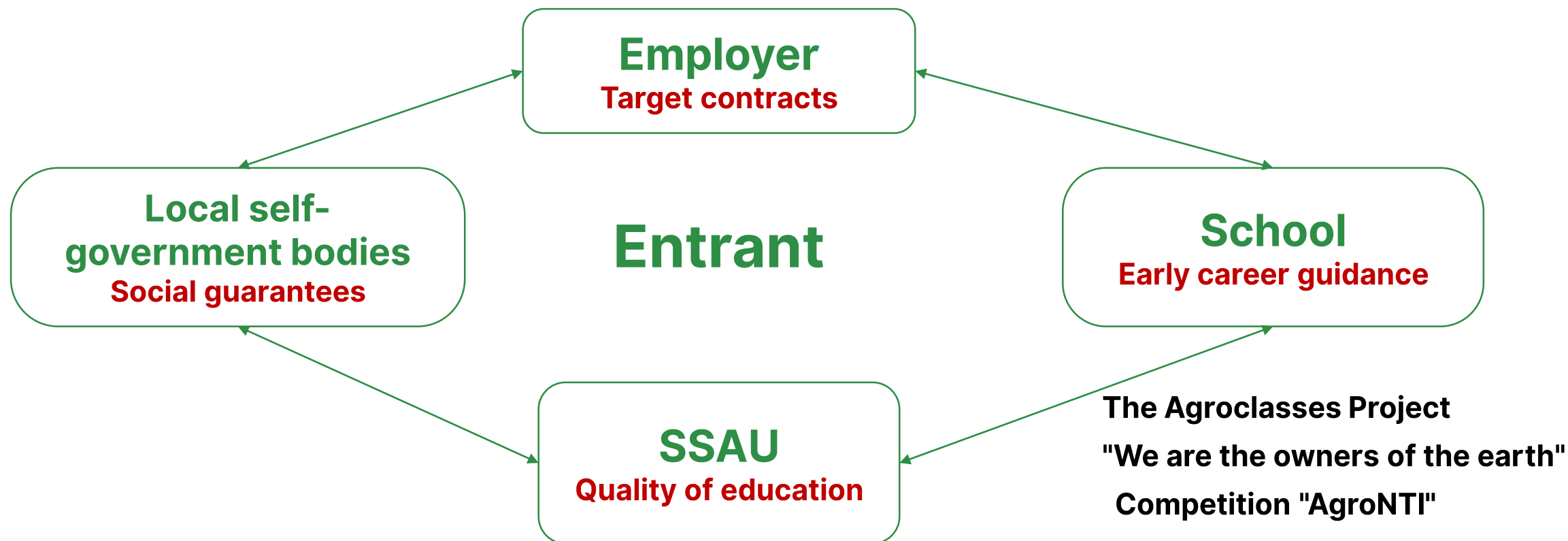
# The system of personnel support of the economy on the basis of the university

## BASIC DEPARTMENTS AT THE SITE OF INDUSTRIAL PARTNERS



**АГРОКОНСАЛТИНГ**  
Общество с ограниченной ответственностью

**ЭНЕРГОМЕРА**



## Formation of the infrastructure of the Agroinopolis-2030 program in order to conduct early career guidance work for the self-determination of schoolchildren of Stavropol Krai in choosing their future professional activities

### Dynamics of the initiative implementation

- ❑ **Implementation of the profile agricultural shift "We are the owners of the Land!"**
  - 26 municipal districts of Stavropol Krai;
  - 312 students of grades 8-11.
- ❑ **The project "The first profession of a pupil"**
  - 4 training programs;
  - 307 students of grades 8-11.
- ❑ **Seasonal Schools Project**
  - 26 municipal districts of Stavropol Krai;
  - 243 students of grades 8-11.



### Immediate plans 2024-2025

- ❑ **Implementation of the first wave of the Agroclasses project in five territories of Stavropol Krai;**
- ❑ **Scaling of projects "We are the owners of the Earth!" and "Seasonal schools" with the support of the Government of Stavropol Krai in order to increase the coverage of schoolchildren;**
- ❑ **Strengthening work with talented applicants**
  - Interaction with the Russian Movement of Children and Youth "Movement of the First";
  - Implementation of joint projects and initiatives with the Sirius 26 Regional Center for Identifying, Supporting and Developing the Abilities and Talents of Children and Youth of Stavropol Krai;
  - Development of our own university Olympiad for schoolchildren.



## Independent assessment of qualifications

In 2025, Stavropol State Agrarian University implemented **103 higher education programs: 50 bachelor's programs, 48 master's programs, and 5 specialist programs.**

The university's average academic performance reached 4.27, while the absolute academic performance rate amounted to 91.1%.

According to annual quality monitoring, student satisfaction with the quality of disciplines and internships reached **96.0%**, and satisfaction with learning conditions and the organization of the educational process reached **91.3%**.

Faculty satisfaction with working and educational conditions amounted to **95.0%**, while employer satisfaction with graduate training exceeded **98.6%**.

In secondary vocational education, 4 programs underwent professional and public accreditation in 2025.

The effectiveness of accreditation across these accredited programs ranged from 87.9% to 97.3% out of 100%.

As of 31 December 2025, the share of secondary vocational specialties and trades with professional and public accreditation was 53.6%.

# STRATEGIC GOAL AND PROJECTS AGROINOPOLIS DEVELOPMENT PROGRAMS– 2030

The strategic goal is to transform into an entrepreneurial type university, integrating agro-drivers (biologization of agriculture, breeding, animal genomics, digitalization, advanced training) into the processes of ensuring sustainable development of the agro-industrial complex



BREEDING AND GENETICS  
IN CROP PRODUCTION.  
BIOLOGIZATION OF AGRICULTURE

Provision of planting material and  
new varieties of fruit and berry  
crops



BREEDING AND GENETICS  
IN ANIMAL HUSBANDRY

Analysis of the genetic potential of  
dairy cattle and creation of a  
breeding core



SUSTAINABLE RURAL  
DEVELOPMENT

Monitoring the effectiveness of state and  
regional rural development programs



Expert analysis of  
agroindustrial  
complex  
personnel  
Stavropol  
Territory –  
shortage of  
personnel in the  
agro-industrial  
complex, the  
need to form a  
competence map



АГРОКАДРЫ 2030



Creation of a personnel  
training system for the  
agroindustrial complex  
of the North Caucasus  
Federal District

## Directions for the development of AEP

programs:

Gardening and nursery  
management

Breeding and genetics

Development of agricultural  
territories

Biotechnology

Business analysis, forecasting and  
modeling of technical processes

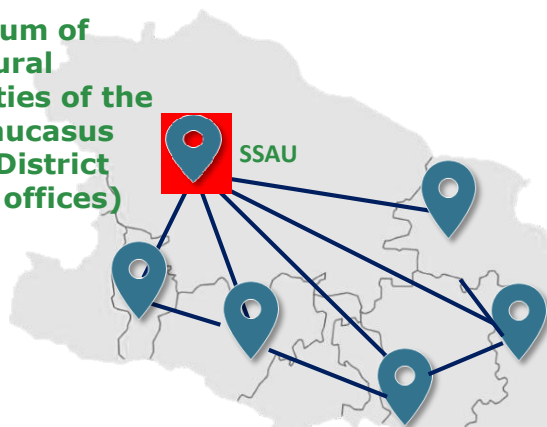
Employers'  
requests – the  
need to develop  
priority areas

digital platform

think tank expert and  
analytical center of  
the North Caucasus  
Federal District  
system for building cross-  
cutting competencies in the  
Agro-Industrial Complex 4.0

**Purpose: to create a personnel training system for the agricultural sector of the north caucasus federal district**

**Consortium of Agricultural universities of the North Caucasus Federal District (project offices)**



Forming partnerships with current and future leaders of the agricultural sector of the economy



5,000 annually  
Coverage of the population of rural areas with continuing education

The level of provision of agricultural organizations in the region with highly qualified specialists (agents of change)

**75%**

250 industry-specific advanced training courses by 2030

Приоритетные направления

**Digital platform**



**50+**

implemented projects of graduates of the AGROLEADER personnel reserve

**10 тыс.**

active users

**65%**

the level of provision of agricultural organizations in the region with mid-level specialists

Creation and development of a global system for the search, attraction, selection and development of talented specialists for the agro-industrial complex market

**The system of building end-to-end competencies of agroindustrial complex 4.0**

**Think tank Expert and Analytical Center of the NCFD Agroindustrial Complex**



**10**

personnel growth roadmaps

A pool of experts working with the modern agenda of the agro-industrial complex

**30**

analytical research of personnel support

- more than 70 programs
- more than 10,000 participants
- more than 50 partners

## Training courses

Create your own program

Course name

All programs

For school children

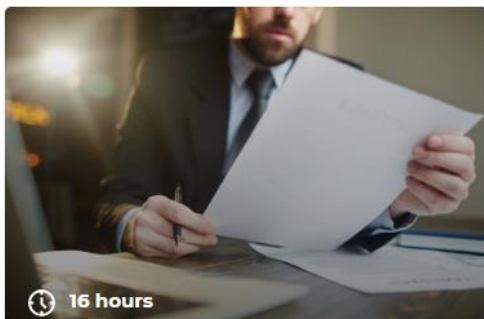
For students

For adults

For employers

For teachers

Age 50+



16 hours

General education

Offline

### Problems of implementation of civil and labor legislation

A program for students of economic and legal specialties that focuses on analyzing real-life problems related to the application of civil and labor legislation. You will learn to identify risks in contractual relations, resolve disputes over wages and compensation, and more.

FILTER

Competence

PSC Project

Duration

## THE PURPOSE OF THE PROJECT

ensuring the necessary level of professional competence of employees of the agronomic service



### TASK 1.

Development of a professional competence profile for employees of the agronomic service of the State Agricultural Enterprise of Rusagro Group



### TASK 2.

Development and evaluation of hard skills for employees of the agronomic services of of Rusagro Group

## TARGET AUDIENCE



**200 employees**

Belgorod, Oryol, Kursk, Tambov regions, Primorsky Krai

## STAGES



### Development :

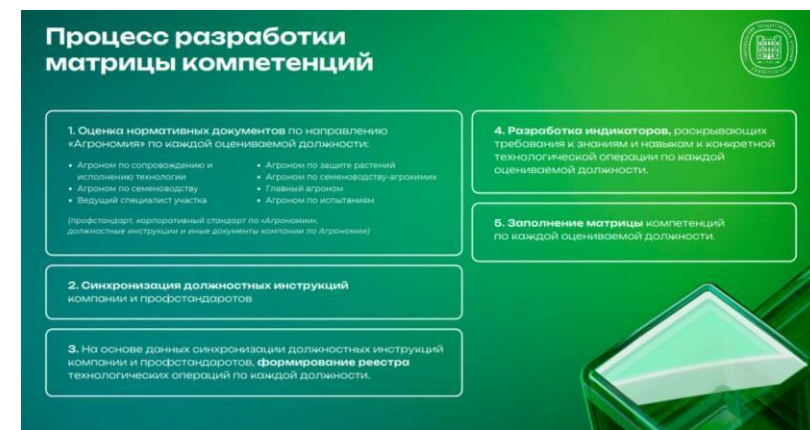
1. Knowledge and skills matrices for each position
2. Criteria for assessing professional knowledge and skills
3. Professional knowledge testing, at least 200 questions in the field of "Agronomy".
4. Cases and questions on technological operations for conducting interviews on professional knowledge, at least 2 cases and 3 questions for each technological operation
5. Checklist for assessing practical skills



### Implementation :

1. Conducting interviews on competencies
2. Assessment of the practical skills of the project participants

## РЕЗУЛЬТАТ



# Opportunities for schoolchildren: gratuitous projects and programs

## City of Agricultural Professions at StGAU

- about 6,000 school students
- 33 municipalities
- May 2025



## Agroclass teaching materials competition

- First national competition launched in 2025
- For grades 7–11
- Biology, chemistry, mathematics, and physics



## Agroclasses

- Career guidance in agriculture and modern technologies
- School students aged 7–18
- Early immersion in agricultural professions



## The cycle of educational projects

- School of Personal Growth
- School of non-formal education
- Media School
- School of leadership skills
- School of Social Design
- School of Agriculture
- School of Volunteer Activity
- School of tutors
- School of Elders
- School of the young scientist

## Adaptation of freshmen

- Scaling the asset camp for freshmen to 1000 participants
- The work of first-year students with the tutor corps during the year
- Creation of a psychological service

## The student government system

- Creation of the Council of Elders
- Creation of the Council of Residents
- Creation of an association of mentors of international students

## Creation of youth spaces

- Opening of a student coworking
- Opening of the PTK coworking
- Opening of a student coffee shop





Scopus

РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index

4 QUALITY  
EDUCATION



Integrated Development of Rural Areas of a Geostrategic Russian Region in the Context of Urbanization and Infrastructure Constraints

Gerasimov, A.N., Skripnichenko, Y.S., Kapustina, E.I., Lelikova, E.I., Skripnichenko, V.Y.  
Lecture Notes in Networks and Systems  
2025

Professional Goal-Setting of Agricultural Education Graduates as a Factor of Sustainable Rural Development

Karpenko, I., Lesnikh, Y.G., Chudnova, O.A., Kalashova, A., Ivashova, V.A.  
Lecture Notes in Networks and Systems  
2025

Implementing a Systematic Approach for Enhanced Analytical Competencies in Environmental Education

Tufanov, E.V., Skabayeva, G.N., Rodionova, V.I., Platonova, A.Z., Olesova, M.M.  
Lecture Notes in Networks and Systems  
2025

Clusterization of Students by Learning Styles: K-means Clustering

Ali, S., Ikonnikov, O.A., Roncevic, I., Grinchenko, V., Parfjonovs, M., Tsarev, R.Y.  
Lecture Notes in Networks and Systems  
2025

Visual Analysis of Students' Academic Performance in E-learning

Bensalah, F., Roncevic, I., Lyubaya, S.I., ... Salgals, T., Tsarev, R.Y.  
Lecture Notes in Networks and Systems  
2025

# 5 GENDER EQUALITY



**Goal 5:  
Achieve gender equality  
and empower all women  
and girls**

# Equality, diversity and Integration strategy

The University implements a **Strategy of Equality, Diversity and Integration**, as well as a **Policy of a fair wage scale to ensure gender equality**. One of the key directions of the university's development: improving the human capital management system in accordance with the concept of employee well-being management (Well-being) – providing favorable conditions for the implementation of all University work processes to maximize the potential of employees and achieve their personal and corporate success.

<https://old.stgau.ru/goals/gender/>



ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ  
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  
«СТАВРОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»



РЕКТОР  
ФГБОУ ВО Ставропольский ГАУ,  
профессор  
И.В. АТАНОВ

## СТРАТЕГИЯ РАВЕНСТВА, РАЗНООБРАЗИЯ И ИНТЕГРАЦИИ

СтГАУ стремится в своей деятельности развивать инклюзивную корпоративную культуру, которая способствует равенству, ценит разнообразие и поддерживает рабочую, учебную и социальную среду, в которой уважаются права и достоинства всех его сотрудников и студентов. В данной стратегии изложена приверженность СтГАУ к таким принципам, как равенство, разнообразие и инклюзивность во всех сферах своей деятельности.

Стратегия равенства, разнообразия и интеграции СтГАУ разработана с целью создания университета равных возможностей, для того чтобы интегрировать всех сотрудников и студентов в единую образовательную среду. СтГАУ при реализации данной стратегии опирается на знания преподавателей, сотрудников и студентов, принадлежащих к различным гетерогенным группам, идентифицирует

ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ  
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  
«СТАВРОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»



РЕКТОР  
ФГБОУ ВО Ставропольский ГАУ,  
профессор  
И.В. АТАНОВ

## ПОЛИТИКА СПРАВЕДЛИВОЙ ШКАЛЫ ОПЛАТЫ ТРУДА ПО ОБЕСПЕЧЕНИЮ ГЕНДЕРНОГО РАВЕНСТВА

СтГАУ считает достижение цели устойчивого развития ООН по обеспечению гендерного равенства одним из своих ключевых приоритетов в управлении персоналом.

Это закреплено в политике занятости в отношении прекращения дискриминации на рабочем месте по расовому, социальному, гендерному, религиозному, национальному и иным факторам.

Университет внимательно следит за тем, чтобы решения о повышении заработной платы принимались исключительно от индивидуальных результатов работы и добросовестного исполнения рабочих обязанностей.

Оплата труда в СтГАУ осуществляется не по гендерной принадлежности сотрудника, а по результативности показателей деятельности сотрудника в соответствии с утвержденными KPI. KPI по каждой занимаемой должности включают согласованные стратегические показатели развития СтГАУ, стратегические показатели отраслевой принадлежности и показатели личного роста сотрудника в соответствии с его личным профилем благополучия.



## Continuing professional development for teachers

Developed as an important activity of the Institute of Continuing Professional Education.

## Agroclasses project

- A continuing professional development program on the content and methodology of teaching profile agricultural subjects.

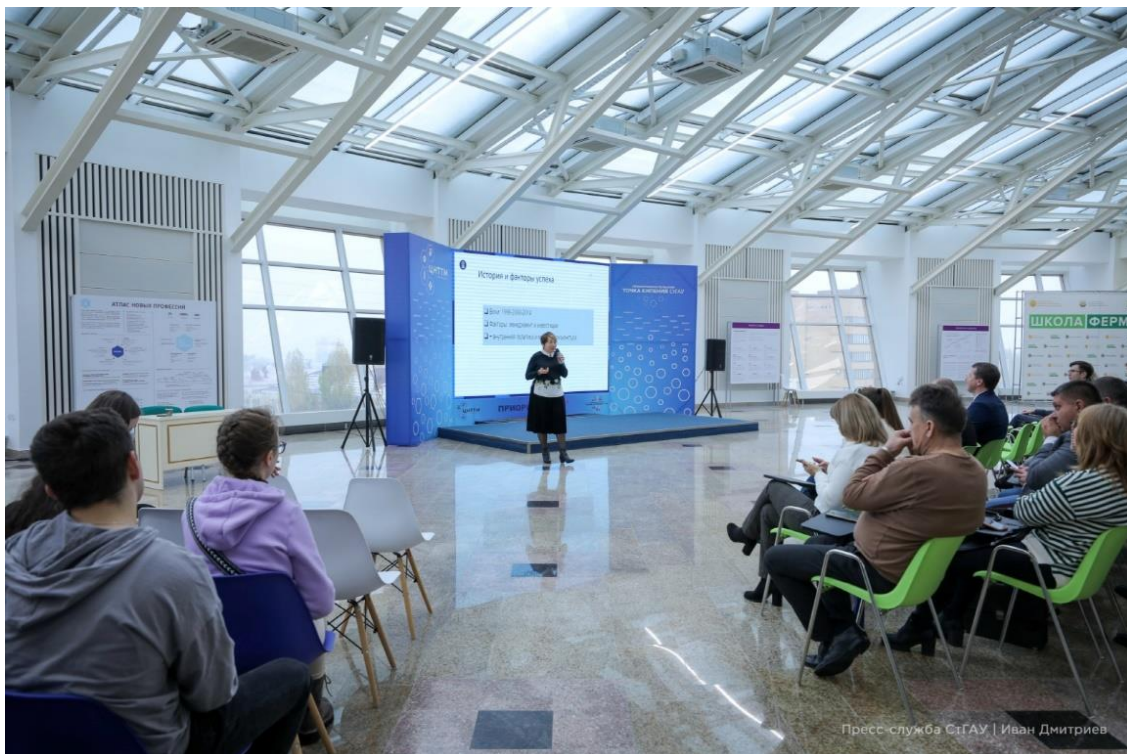


**561 teachers trained**



SSAU served as the operator of the training program.

## Corporate internship of teaching staff A program for developing teaching quality and methodological support



The internship is based on the university's internal quality assurance system.

It combines real-time monitoring, video control, and methodological feedback for teaching staff.



**2 levels:**

- classroom monitoring;
- methodological support.



**313 classes**



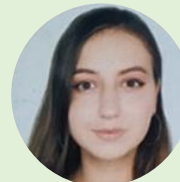
Duration of the internship :  
**during 2025**

### Expected results :

- stronger teaching quality control
- improved methodological competence of staff
- consistent implementation of educational standards



In order to form the personnel reserve of the Institute of Agrarian Genetics and Breeding, 2 people were recruited within the framework of a network Master's degree program with MIPT in 2024-2025. with obligations of subsequent employment in the position of staff



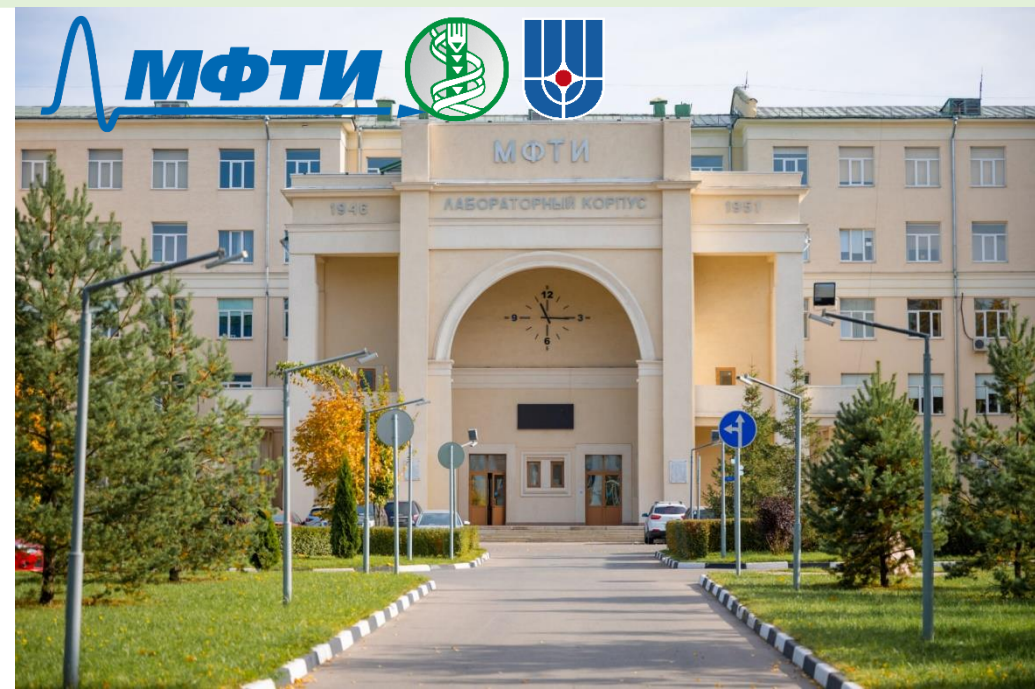
Alikberova Vera Ivanovna Research topic: "Methods of genetic transformation of stone fruits on the example of plums and cherries"



Dmitrieva Anna Ruslanovna Research topic: "CRISPR/Cas9 - mediated editing of the waxy gene (Zea mays L.)"

## + Conditions of study and employment

- free Master's degree at MIPT and the provision of accommodation and scholarships
- employment contract from 3 advanced scientific and innovative tasks participation in the design of laboratories
- work on the latest modern scientific equipment



# Extended survey of staff on professional development trajectories

A survey of employees of the "**Professional development trajectories of the staff**" was organized and conducted (**100%** of the staff)



## Blocks:

- »» The attractiveness of university work
- »» Employee engagement in the implementation of the Development Program
- »» Preferred types of work activity
- »» The level of professional competence of employees
- »» Proposals for the development of the university

Improving the socio-cultural environment of the university, contributing to the early professionalization of young people and the formation of positive motivation to work to promote and strengthen the brand "**Graduate of SSAU - professional, leader, mentor**"

## Dynamics of the initiative implementation

- The annual student leadership camp "**Youth Leader of StGAU**" brought together **1,000 first-year students** and served as a launchpad for leadership and teamwork development.
- Educational projects and schools were implemented, including the **Project Activity School, Tutor School, and Volunteer Activity School.**
- In 2025, student involvement in cultural and sports events reached **85%**, and participation in socially useful and civic activities reached **88%**.

## Immediate plans 2024-2025

- **Increase engagement of vocational and higher education students in youth policy projects.**
- Develop mentoring, volunteering, and student self-government formats.
- **Expand first-year student participation in adaptation and leadership programs.**



# 6 CLEAN WATER AND SANITATION



**Goal 6: Ensure access to water  
and sanitation for all**

# The University's activities in the field of ensuring the availability and rational use of water resources and sanitation



The University organizes and conducts environmental control of its activities, including in the field of protection and use of water bodies.

The results of industrial environmental control are freely available on the University's website at the link:

<https://old.stgau.ru/goals/water/>

## 1. Общие сведения об организации и результатах производственного экологического контроля

Таблица 1.1. Общие сведения

№ п/п	Наименование данных	Данные
1	Полное наименование (сокращенное наименование) юридического лица или фамилия, имя, отчество (при наличии) индивидуального предпринимателя	Федеральное государственное бюджетное образовательное учреждение высшего образования «Ставропольский государственный аграрный университет» (ФГБОУ ВО Ставропольский ГАУ)
2	Наименование субъекта Российской Федерации, адрес юридического лица, место жительства индивидуального предпринимателя, с указанием почтового индекса	Юридический адрес: 355017, Ставропольский край, г. Ставрополь, пер. Зоотехнический, 12
3. ИНН	4. ОГРН (либо сведения о внесении записи в государственный реестр аккредитованных филиалов, представительств иностранных юридических лиц)	5. Наименование объекта, оказывающего негативное воздействие на окружающую среду (далее – объект)
2634003069	1022601993468	Площадка №1. Главный корпус университета совместно с территорией факультета агробиологии и земельных ресурсов и вспомогательных подразделений
6. Адрес места нахождения объекта	7. Код объекта	8. Категория объекта
г. Ставрополь, пер. Зоотехнический, квартал 112; ул. Мира, д. 302; 304/1; 306; 308; кадастровые номера земельных участков: 26:12:030114:13; 26:12:030120:10; 26:12:030120:33; 26:12:030120:32; 26:12:030120:31	07-0226-005214-П	III

## 3. Результаты производственного контроля в области охраны и использования водных объектов

Таблица 3.1. Сведения о результатах учета объема забора (изъятия) водных ресурсов из водных объектов и объема сброса сточных, в том числе дренажных, вод, их качества

Реквизиты письма (номер (при наличии) и дата), которым направлены сведения о результатах учета забора (изъятия) водных ресурсов из водных объектов и сброса сточных, в том числе дренажных, вод, их качества	Территориальный орган Росводресурсов, в который направлены результаты учета забора (изъятия) водных ресурсов из водных объектов и сброса сточных, в том числе дренажных, вод, их качества	Количество загрязняющих веществ, содержащихся в забранной (изъятной) воде из водного объекта (по каждому контролируемому загрязняющему веществу), тонн/год (заполняется в случае использования одного и того же водного объекта для забора воды и для сброса сточных вод)
1	2	

Не осуществляется пользование водными объектами

Таблица 3.2. Сведения о результатах наблюдения за водными объектами (их морфометрическими особенностями) и их водоохранными зонами, а также о результатах учета качества поверхностных вод в местах сброса сточных, в том числе дренажных, вод выше и ниже мест сброса (в фоновом и контрольном створах)

Реквизиты письма (номер (при наличии) и дата), которым направлены сведения о результатах учета качества поверхностных вод в местах сброса сточных, в том числе дренажных, вод выше и ниже мест сброса	Федеральный орган исполнительной власти субъекта Российской Федерации или орган местного самоуправления, в который направлены результаты учета качества поверхностных вод в местах сброса сточных, в том числе дренажных, вод выше и ниже мест сброса	Реквизиты письма (номер (при наличии) и дата), которым направлены сведения о результатах наблюдения за водными объектами (их морфометрическими особенностями) и их водоохранными зонами	Территориальный орган Росводресурсов, в который направлены сведения о результатах наблюдения за водными объектами (их морфометрическими особенностями) и их водоохранными зонами
1	2	3	4

Не осуществляется пользование водными объектами

# Projects in the field of ensuring rational consumption and production models

Within the framework of achieving the sustainable development goal "**Goal 6: Ensure access to water and sanitation for all**", the university implements the following projects and policies:

- Environmental policy of the SSAU
- Hazardous Waste Disposal Policy
- Plastic Waste Reduction Policy

<https://old.stgau.ru/goals/water/>



МИНИСТЕРСТВО СЕЛЬСКОГО ХОЗЯЙСТВА РОССИЙСКОЙ ФЕДЕРАЦИИ  
ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ  
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  
«СТАВРОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»



ЭКОЛОГИЧЕСКАЯ ПОЛИТИКА  
ФГБОУ ВО СтГАУ

Ставрополь  
2019

# Meeting with Academician Alexander Kulichenko



Advanced approaches to infection control and zoonosis prevention

Held at the Institute of Veterinary Medicine and Biotechnologies, with students of Stavropol State Agrarian University.

Guest speaker: Alexander Kulichenko, Director of the Stavropol Research Anti-Plague Institute of Rospotrebnadzor, Academician of the Russian Academy of Sciences.

The meeting strengthened students' professional competencies, critical thinking, and research-oriented approach to problem-solving.

<https://stgau.ru/media/news/direktor-stavropolskogo-nauchno-issledovatel'skogo-protivocumnogo-instituta-provel-lekciyu-dlia-studentov-stgau>

## Students of SSAU attended a practical class in sheep breeding at a partner enterprise

The off-site class was held for students of the Institute of Veterinary Medicine and Biotechnologies at the agricultural production cooperative “Plemzavod Vtoraya Pyatiletka” in the Ipatovo urban district.

Students strengthened competencies in the disciplines “Sheep and Goat Breeding” and “Selection and Genetic Methods for Developing New Breeds and Lines of Farm Animals.”

<https://stgau.ru/media/news/studenty-stgau-posetili-zaniatie-po-ovcevodstvu-na-baze-predpriatiia-partnera>



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**6** CLEAN WATER  
AND SANITATION



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Burgos, A.L., Morozova, A., Ivolga, A.G., Cuevas, G.

Population, Space and Place

2025

The Central Asia–China–Russia Nexus: The New Normal Challenges to Ensuring Sustainable Development in the Region

Erokhin, V., Tianming, G., Ivolga, A.G.

Palgrave Handbook of Practical Sustainability

2025

Assessment of Anthropogenic Impact on Water Bodies of Regional Significance

T. G. Zelenskaya, Yu. A. Bezgina, E. E. Stepanenko, V. A. Khalikova

International Agricultural Journal

2025

Microbiological Control of Swabs from Protective Clothing and Hand Swabs of Personnel Authorized to Work in Cleanrooms

Kovalevskaya M.A., Shakhova V.N., Svetlakova E.V., Ozheredova N.A.,

Dmitriev A.F.

Veterinaria Kubani

2025

# 7 AFFORDABLE AND CLEAN ENERGY



**Goal 7:  
Ensure access to  
affordable, reliable,  
sustainable and modern  
energy**

# Traditional and renewable energy **Educational programs**

**Generator of opportunities:** Stavropol Agrarian University will become the center of green energy in the south of Russia

What a fan of opportunities this event opens up for the region's economy?



<https://pobeda26.ru/articles/articles/2023-02-28/generator-vozmozhnostey-agrarnyy-universitet-stavropolya-stanet-tsentrom-zelyonoy-energetiki-yuga-rossii-249910>





**Anikuev Sergey Viktorovich**

Dean of the Faculty of Electric Power Engineering



## **35.04.06 AGROENGINEERING**

### **MASTER'S DEGREE PROGRAM**

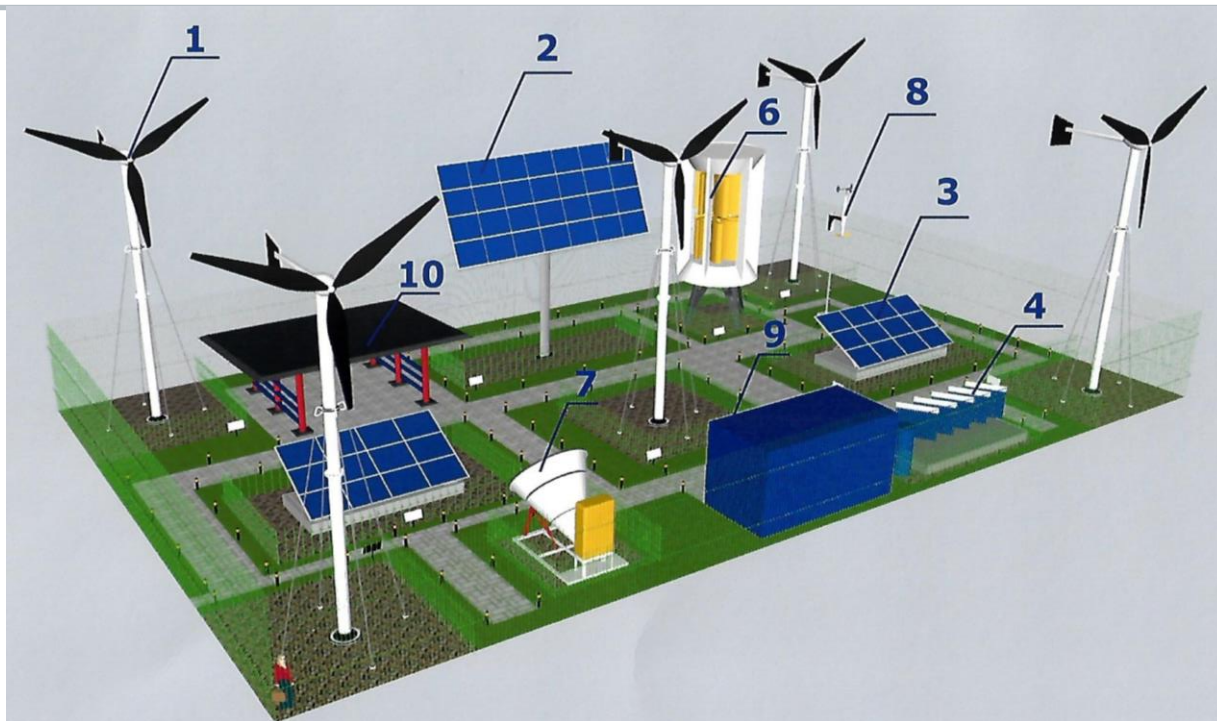
**Traditional and renewable energy of the agro-industrial complex**

# Laboratory of alternative energy sources



The laboratory includes:  
Training stands  
Computer equipment  
Control and measuring equipment  
Scientific research equipment



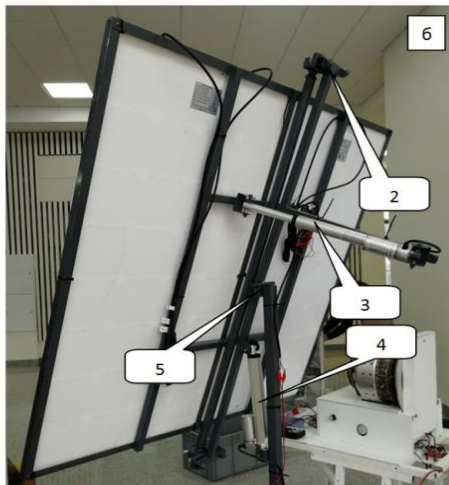
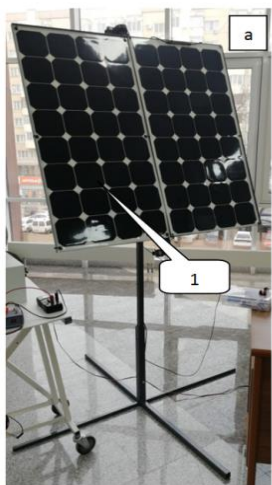


## Technical equipment of the landfill:

1. Wind power plant – 5 pcs., with a total capacity of 15 kW.
2. Solar intelligent track system - 1 pc., with a total capacity of 15 kW.
3. Stationary solar power plant – 2 modules with a total capacity of 6 kW.
4. Solar collectors (thermal energy) – 5 modules with a total capacity of 5 kW.
5. Heat pump (thermal energy) – 1 pc., with a total capacity of 3.5 kW.
6. Wind power plant with a vertical rotor – 1 pc., with a total capacity of 3.5 kW.
7. Solar energy concentrator – 1 pc., with a total capacity of 5 kW.
8. Weather station – 1 pc.
9. The technological block-container of the landfill.
10. Briefing area.

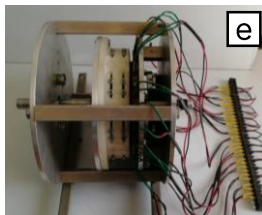
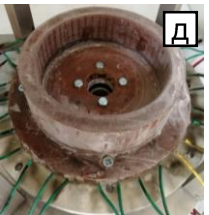
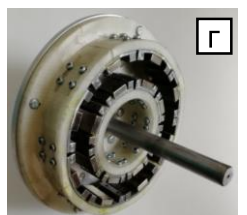
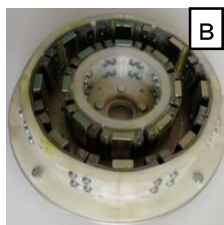
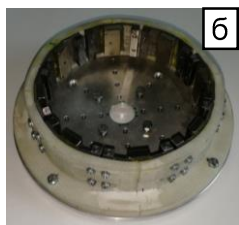


# Conducting scientific research in the field of "alternative energy"



## Characteristics of the autonomous power supply system :

- The power of solar panels is 200 watts;
- The power of the synchronous generator of the wind power plant is 680 watts;
- Battery capacity – 200 Ah;
- The power of the inverter is 5 kW; Battery life – 8 hours;
- The diameter of the wind turbine is 3.5 m.



## Educational programs



**13.03.02 - ELECTRIC POWER AND ELECTRICAL ENGINEERING**



**35.03.06 AGRO-ENGINEERING (ELECTRICAL EQUIPMENT AND ELECTRICAL TECHNOLOGIES)**



**35.03.06 AGROENGINEERING (AUTOMATION AND ROBOTIZATION OF TECHNOLOGICAL PROCESSES)**



**2500 sq.m** area of the educational and laboratory base

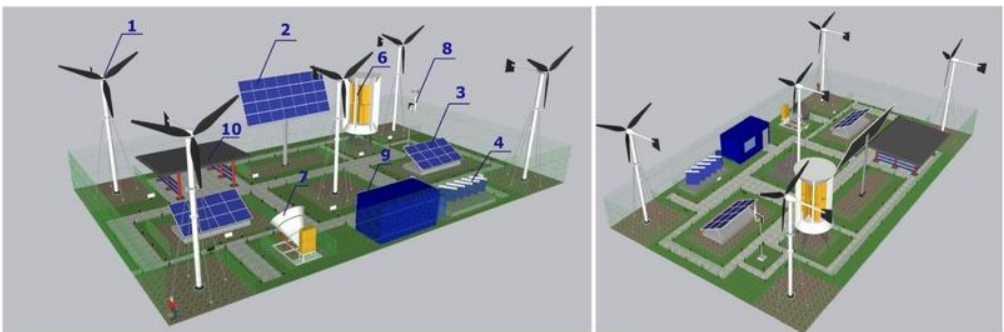
**33** educational and research laboratories

The faculty has laboratories “Simulation modeling of electrical systems and devices in the SimInTech environment” and “Intelligent systems of integrated accounting of energy resources”, the only educational laboratory in Russia – the competence center “Intelligent sensor systems for dispatching control and control of heat consumption parameters”, the largest training ground in the South “Alternative Energy” is under construction, a training ground for electrical installation works, a virtual reality (VR) training and research laboratory “Installation and technical operation of heat metering units”, etc.

# Scientific and educational projects in the field of sustainable energy development



Solar panels on the roof of SSAU building



#### Техническое оснащение полигона:

1. Ветроэнергетические установки - 5 шт., общей мощностью 15 кВт.
2. Солнечная интеллектуальная трек-система - 1 шт., общей мощностью 15 кВт.
3. Стационарная солнечная электростанция - 2 модуля, общей мощностью 6 кВт.
4. Солнечные коллекторы (тепловая энергия) - 5 модулей, общей мощностью 5 кВт.
5. Тепловой насос (тепловая энергия) - 1 шт., общей мощностью 5 кВт.
6. Ветроэнергетическая установка с вертикальным ротором - 1 шт., общей мощностью 3,5 кВт.
7. Концентратор солнечной энергии - 1 шт., общей мощностью 5 кВт.
8. Метеостанция - 1 шт.
9. Технологический блок-контейнер полигона.
10. Брифинг зона.



Computer visualization of the polygon for research

The educational program **“Traditional and renewable energy in the agro-industrial complex”** studies in detail two strategic types of green energy for Stavropol – wind and solar.

At the same time, emphasis is placed on the joint operation of power grids, wind generators and solar modules, solving problems of accumulation and transportation of electricity over long distances with minimal losses. If earlier knowledge in the field of green energy was given to students only point-by-point, now teachers give a wide range of theory and practice in 2 years.

The scientific developments of SSAU in the field of green energy are primarily focused on remote farms and structures: for example, apiaries, pastures and fisheries facilities, but in the future they may also switch to large enterprises.

<https://pobeda26.ru/articles/articles/2023-02-28/generator-vozmozhnostey-agrarnyy-universitet-stavropolya-stanet-tsentrom-zelyonoy-energetiki-yuga-rossii-249910>



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Determining the Composition of Integrated Reporting Indicators Under Uncertainty: Innovation-Based Convergence of Economic, Managerial, Social, and Environmental Contexts

Erokhin, V., Bobryshev, A.N., Tianming, G., ... Malinovskaya, N.V., Zargaryan, N.R.

Journal of the Knowledge Economy

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Harnessing Nanocatalysts for Sustainable Chemical Processes: Innovations in Green Chemistry

Kashezheva, M., Kedakhezheva, R., Morozov, V.Y., ... Kuchuk, O., Simonov, A.N.

Asian Journal of Green Chemistry

2025

Concept of a Multilevel Network Infrastructure for Monitoring Agricultural Facilities Based on Wireless Sensor Networks

Samoylenko, V.V.

Advanced Engineering Research Rostov on Don

2025

The Influence of Wheat Moisture Content on the Energy Efficiency of Grinding in a Rotary Crusher

Iskenderov, R.R.

Lecture Notes in Networks and Systems

2025

Transient Process Analysis for Accurate Frequency Converter Performance in Agro-Industrial Applications

Andreevich, L.N., Valerievich, E.A., Yastrebov, S., Adoshev, A.I.

Lecture Notes in Networks and Systems

2025

# 8 DECENT WORK AND ECONOMIC GROWTH



**Goal 8:  
Promote inclusive and  
sustainable economic  
growth, employment  
and decent work for all**

# Free retraining programs based on SSAU

**SSAU is a platform of free projects for students to improve competitiveness in the labor market**



## Who can take free training?

- Citizens aged 50 years and older, citizens of pre-retirement age;
- Women on parental leave under 3 years of age;
- Women who are not in an employment relationship and have preschool children aged 0 to 7 years inclusive;
- Unemployed citizens registered with the employment service;
- Employees at risk of dismissal, including the introduction of part-time work, downtime, temporary suspension of work, provision of leave without pay, measures to release employees
- And other citizens

[https://vk.com/wall-215489923\\_1651](https://vk.com/wall-215489923_1651)

Пройдите бесплатное обучение  
по программам Ставропольского ГАУ  
и ЦОПП в рамках ФП  
«Содействие занятости»

УЧАСТВОВАТЬ

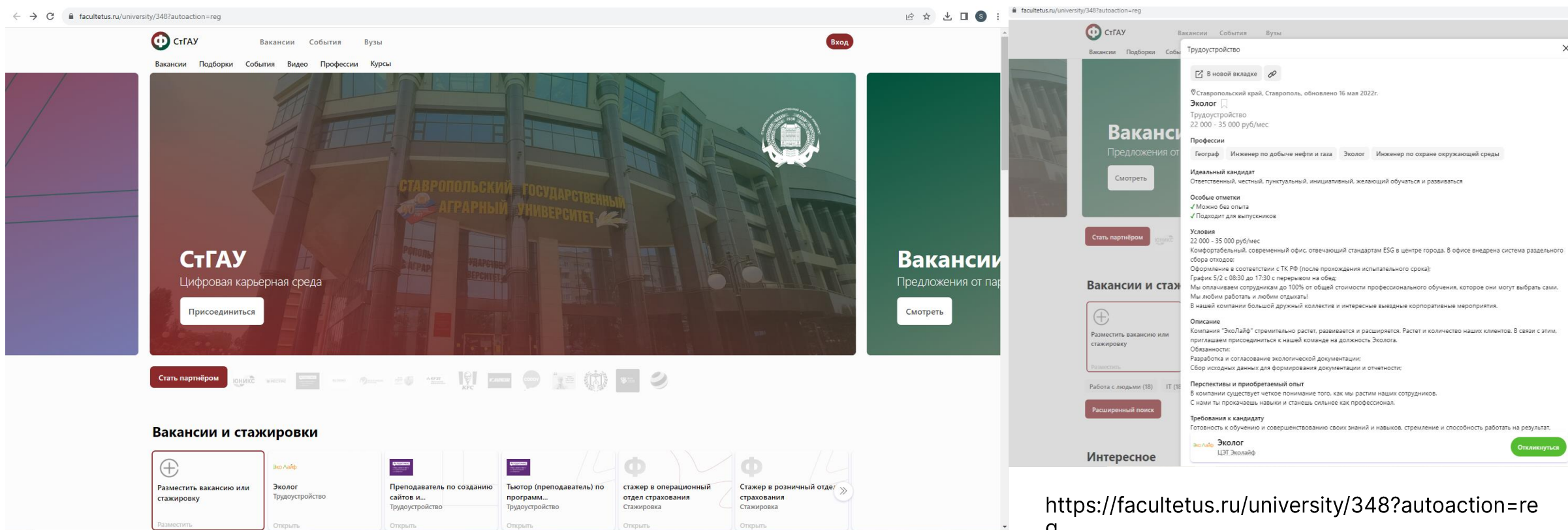


# Everyone will find a job!

## The system of employment assistance in SSAU

### Digital career environment of SSAU

Trainings on the formation of a resume, career strategy and a pool of vacancies from enterprises and organizations are available daily for students and graduates of the university.



The screenshot displays the website of the Stavropol State Agrarian University's digital career environment. The main page features a large banner with the university's name and logo, and a prominent "Вакансии" (Vacancies) section. Below the banner, there are several categories of job listings, including "Эколог" (Ecologist) and "Преподаватель по созданию сайтов и..." (Teacher for website creation...). A detailed view of a job listing for "Эколог" is shown on the right, providing information such as location (Stavropol), salary (22,000 - 35,000 rub/mo), and requirements. The interface includes navigation menus, a search bar, and a "Вход" (Login) button.

<https://facultetus.ru/university/348?autoaction=reg>

# Everyone will find a job!

## The system of employment assistance in SSAU

### University as a platform for career development

SSAU and Sberbank have long-term warm friendly relations. Students and graduates work in their specialty in different branches of the bank, holding leading positions. **SSAU has a structured system of student and graduate career support, including employer partnerships, career guidance, and an annual job fair.**

[https://vk.com/wall-215489923\\_14528?ysclid=m2rw13oqyu952848472](https://vk.com/wall-215489923_14528?ysclid=m2rw13oqyu952848472)



Creating optimal conditions for involving young people in research and project activities and promoting the brand "**Young scientist of SSAU - researcher, inventor and entrepreneur**"



The solemn closing of the School of a Young Scientist has just taken place at the site of the Entrepreneurial Boiling Point of t SSAU!

In an atmosphere of joy and pride, letters of thanks were awarded to the organizers, who helped make the School bright and memorable. Thanks to everyone who participated in the School of the Young scientist. We hope that you have received unforgettable emotions and a useful experience!

[https://vk.com/club187658431?ysclid=m2rvk40ly4151994223&z=photo-187658431\\_457259647%2Fwall-187658431\\_1464](https://vk.com/club187658431?ysclid=m2rvk40ly4151994223&z=photo-187658431_457259647%2Fwall-187658431_1464)



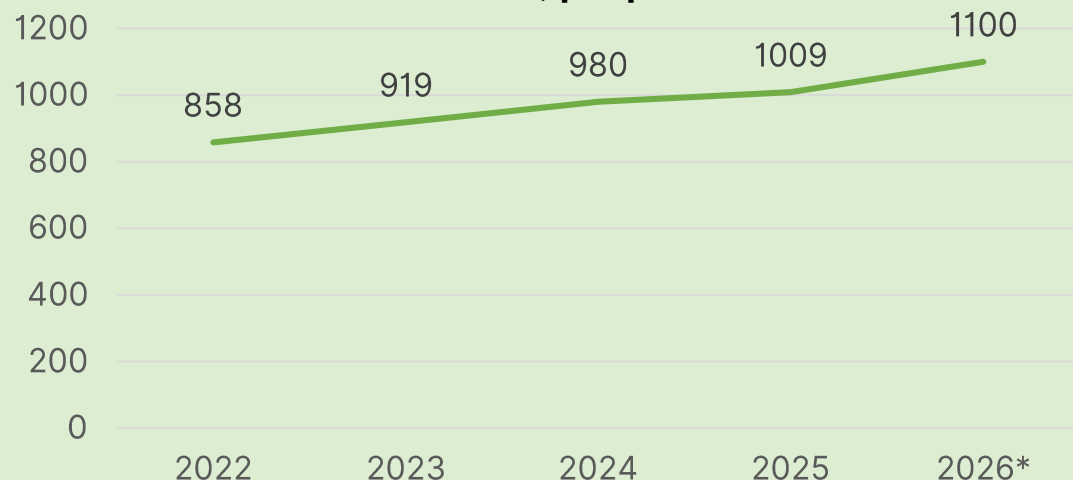
## Creating optimal conditions for involving young people in project activities and supporting student grant initiatives



**In 2025, SSAU students were actively involved in project activities and gained real opportunities to develop their own initiatives.**

The university supported their participation in grant competitions, and as a result, students won 6 grants in total: 4 grants for socially significant projects in the city of Stavropol and 2 grants under the Rosmolodezh. Grants competition. This demonstrates that SSAU creates conditions not only for education, but also for developing students' leadership, creative, and social potential, while helping them turn their ideas into practical and socially useful projects.

Number of members of  
the NSO, people.



## Positive effects



**+17%**

the growth of the Student Scientific Society

**215 publications**

forecast for publication activity

**32 winners**

"Student Startup" programs  
(increased entrepreneurial activity)

## Научная карьера выпускников СНО сегодня:



**1 graduate student**  
Scholarship Holder of the  
President of the Russian  
Federation



**14 SNO graduates**  
junior researchers at the  
University laboratories

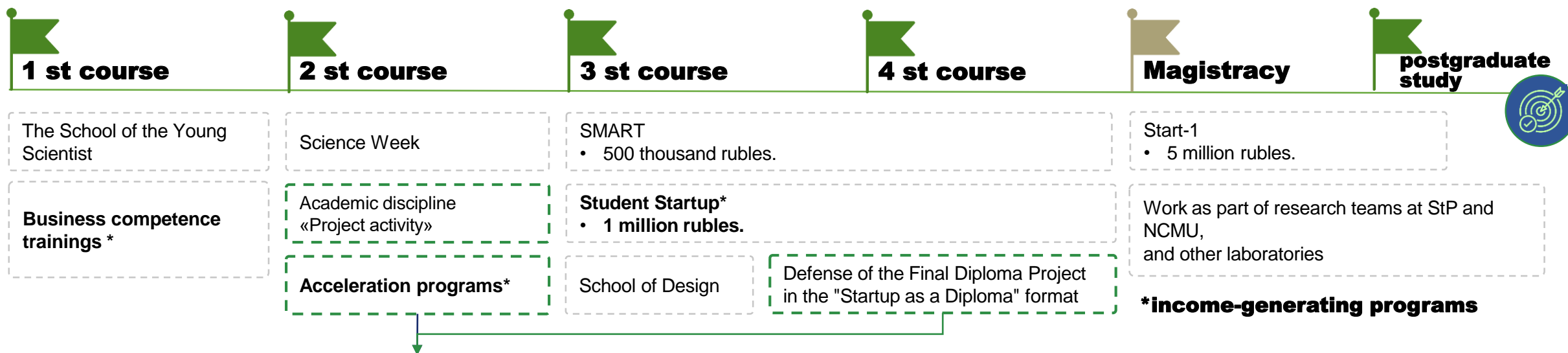


**4 graduates of the SNO**  
PhD theses are being defended



**5 SNO graduates**  
heads of student laboratories

# EDUCATIONAL TOOLS FOR FORMING PROJECT COMPETENCIES



## Training for NPDs working with students

Program name	AUP	NPR
Advanced training "Technology Startup Tracker"	5	18
Advanced training "Startup as a Diploma"	2	-

## Scientific results

Patents	81
Scientific articles	56*
license agreements for the transfer of rights to use RID	27

## Startup development

Participants	9 graduates
Investments	9 million rubles

## Startup Partners



АСБ  
АГРОХОЛДИНГ



## Scientific trajectory

To staff of startaprojects	4
To the NCMU staff	4

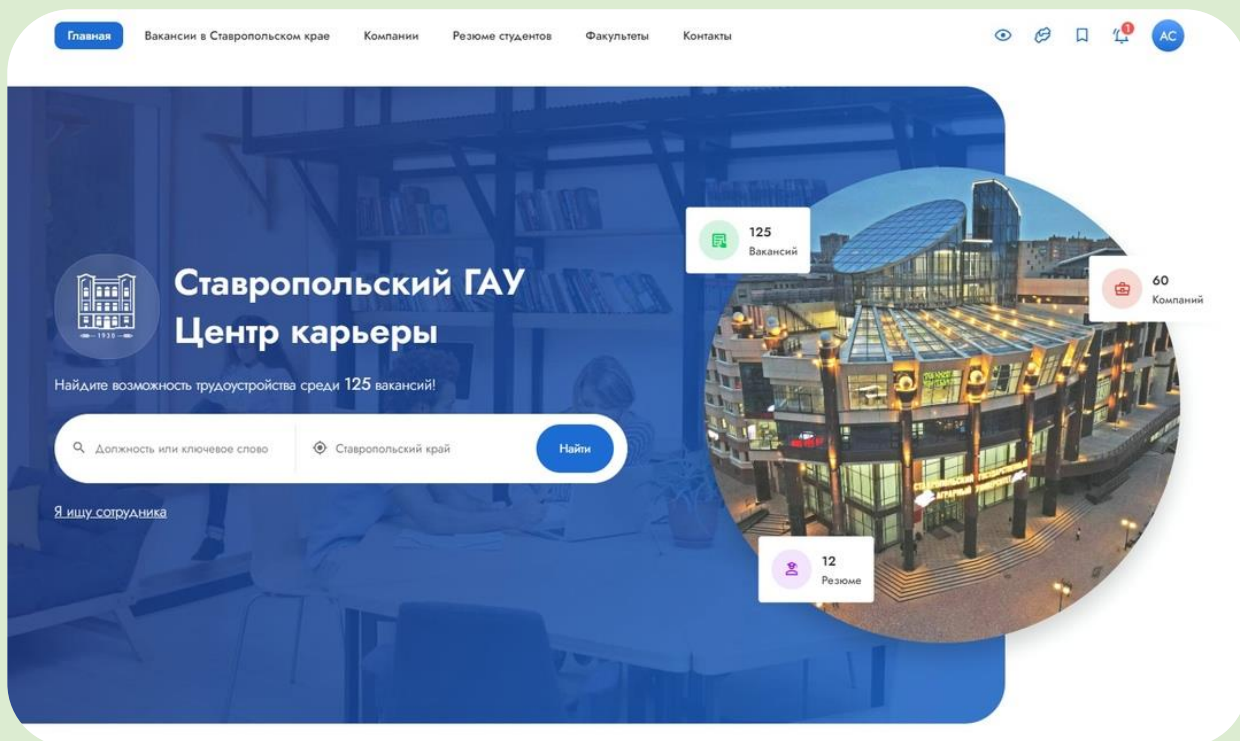
### Denis Belyaev TOP-50 University Startups in Russia

#### Eric Klinchaev

Top 12 student startups from the Rosselkhozbank and Skolkovo agro-financial technology accelerator

#### Nikita Martin

Expert of the business program of the Caucasian Investment Forum



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Sashkova, I., Ivolga, A.G., Lisova, O.M., Esaulko, A.N., Pavlenko, I.G.

Journal of the Knowledge Economy

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Sharif, M.N., Zhang, L., Raza, A., Akram, K., Ivolga, A.G.

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The Central Asia-China-Russia Nexus: The New Normal Challenges to Ensuring Sustainable Development in the Region

Erokhin, V., Tianming, G., Ivolga, A.G.

Palgrave Handbook of Practical Sustainability

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Rubtsova, E.I., Afanasyev, M.A., Yanovskiy, A.A., Bogolyubova, I.A., Lyubaya, S.I.

Lecture Notes in Networks and Systems

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Analysis and Trends of Agricultural Development Under the Conditions of Digitalization

Nizamutdinov, M.M., Parfenova, K.A., Khaliullin, A., Rotanov, G.N., Kartavtseva, I.

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2025

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Gurnovich T.G., Bershitsky Y.I., Agarkova L.V., Demchenko D.A., Novoselova A.I.

International Agricultural Journal  
2025

Identification of Innovative Directions for Developing the Export Potential of the Agrarian Sector of the Economy  
I. A. Svistula, D. V. Zaporozhets, N. B. Chernobay

AIC: Economics, Management  
2025

State and Features of the Development of the Wheat and Wheat-Rye Flour Market in Russia and Abroad  
A. M. Kapishnikov, N. V. Vorobyeva, F. V. Pilipenko

Economics, Labor, and Management in Agriculture  
2025

# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



**Goal 9:  
Build resilient  
infrastructure, promote  
sustainable  
industrialization and  
foster innovation**



# CORE OF THE DEVELOPMENT PROGRAM

## Transition from the model of a branch university to the model of an entrepreneurial one

Elements of an entrepreneurial university	What is the university doing in this direction	
Enhanced management core	<ul style="list-style-type: none"><li>• The presence of a strong leadership that is able to respond to the demands of the market economy, while maintaining a balance of new managerial and traditional academic values</li></ul>	<ul style="list-style-type: none"><li>• University's Turn to Business</li><li>• New academic and industrial partners (agroholdings, MGIMO, HSE, MIPT, Lomonosov Moscow State University, UNN Lobachevsky University)</li></ul>
Expanded periphery of development	<ul style="list-style-type: none"><li>• Reorganization of the organizational structure</li><li>• The functionality of the first Vice-rector and the reassembly of the Board of Trustees</li></ul>	<ul style="list-style-type: none"><li>• Introduction of representatives of R&amp;D departments of agricultural holdings to the STS</li></ul>
Diversified funding base	Obtaining new types of financing: <ul style="list-style-type: none"><li>• Priority-2030+ region and the Ministry of Agriculture of the Russian Federation, RSF, targeted business donations, Professionalism, grants for SSS, acceleration program and PTC</li></ul>	<ul style="list-style-type: none"><li>• Expanding the number of customers of scientific and technical services and R&amp;D</li></ul>
Stimulated academic structures	<ul style="list-style-type: none"><li>• Establishment of the Institute of Agricultural Breeding and Genetics</li><li>• Consolidation of faculties into institutes</li></ul>	<ul style="list-style-type: none"><li>• New standards for the organization and support of research and development (grants to groups, researchers, youth)</li></ul>
Integrated entrepreneurial culture	<ul style="list-style-type: none"><li>• Traditions according to the SPA rating: innovation and student project contests, funds raised, patent activity, etc.</li></ul>	<ul style="list-style-type: none"><li>• New norms and traditions: design and educational intensive courses, startup as a diploma, disciplines on project activities</li></ul>

Transformation of education in accordance with the demands of the economy

Formation of the personnel potential of the agro-industrial complex of the Stavropol territory

University contribution in technological development :



Breeding and genetics in animal husbandry



Breeding and nursery of fruit and berry crops





# Management of the development program

Directorate – balanced resource allocation

Project Office – coordination of the launch and implementation of program activities

Passports of strategic projects and short-term projects – tasks and results

Road maps – organization and control of execution

Stimulating project participants - 80% employees are involved in the implementation of the program

Presentation of the program and its results at the new annual forum – synchronization of subpoenas with stakeholders

Protection of reports in the Duma of the Stavropol Territory and profile committees – providing external expertise of the contribution to the development of the region and the industry

Governor – head of the university team on defense before the Council "Priority – 2030" – tasks and interests of the region

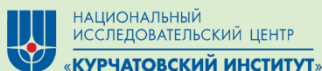


## Policy in the field of innovation and commercialization of developments

### Policy objective

Development of research and innovation activity, commercialization of intellectual property, and implementation of strategic technological projects under the Priority 2030 program.

### Партнеры



Institute of Bioorganic  
Chemistry named after  
Academics M. M.  
Shemyakin and Yu . A .  
Ovchinnikov of the  
Russian Academy of  
Sciences



Lomonosov Moscow State  
University



### Key priorities/directions

1. Improving the scientific and innovative ecosystem of the University
2. Increasing the publication activity of scientists and young researchers, including in priority areas of scientific and technological development
3. Stimulating research and innovation activity in the areas of the University's subject specialization
4. Formation of a system of selection and support of researchers
5. Involvement of students in project activities based on the integration of interdisciplinary research on strategic projects and in the areas of subject specialization of the university

## Competition for young scientists LABORATORY RESEARCHER

- 6 projects supported
- 15 young researchers have been employed

## Student Startup

- 111 participants.
- 76 applications.
- 49 winners.

## UMNIK

- 4 student winners.
- 1 academic staff winner.

1 million rubles per Student Startup winner

## Publishing support

- Ongoing program to stimulate publications in high-ranking journals.
- Training seminars on international publication standards and journal development were held in 2025.
- The university continued publishing 2 scientific journals in 2025
- New journal launched: Global Agricultural Research.

## Key outcomes in 2025

- 120 publications in White List journals.
- Both university journals were included in the Russian White List, level 3.
- Agrarian Bulletin of the North Caucasus was included in DOAJ.
- Research of Problems of Economics and Finance has VAK category K3.
- The 2nd conference Innovations in Sustainable Agriculture 4.0 was held in 2025.
- Proceedings were published in 2 Springer Nature volumes and indexed in Scopus.
- 89 papers were published, including 41 by StGAU authors.

## International visibility



# Integrated rural development

## The purpose of the strategic project

- FORMATION OF A FUNDAMENTALLY NEW SPATIALLY DIFFERENTIATED APPROACH TO RURAL DEVELOPMENT MANAGEMENT BASED ON DETAILED CONSIDERATION OF DEMOGRAPHIC, SOCIAL, CULTURAL, INFRASTRUCTURAL, TERRITORIAL DIFFERENCES, AND TOURISM POTENTIAL IN THE CONTEXT OF THE NEW ECONOMIC REALITY OF THE STAVROPOL TERRITORY

### TASK1

FORMATION OF DATABASES CHARACTERIZING THE LEVEL OF SOCIO-ECONOMIC STATUS AND TOURIST AND RECREATIONAL POTENTIAL OF RURAL AREAS OF THE STAVROPOL TERRITORY, BASED ON STATISTICAL DATA, POPULATION SURVEYS, REGULATORY PARAMETERS OF QUALITY OF LIFE AND PASSPORTS OF SETTLEMENTS

### TASK2

SUBSTANTIATION OF ESTIMATED INDICATORS OF THE LEVEL OF SOCIO-ECONOMIC AND INFRASTRUCTURAL DEVELOPMENT OF RURAL AREAS AND THE QUALITY OF LIFE OF ITS POPULATION

### TASK3

DEVELOPMENT OF ORGANIZATIONAL AND ECONOMIC TOOLS FOR ACHIEVING NORMATIVE INDICATORS OF THE QUALITY OF LIFE OF THE POPULATION OF RURAL AREAS

### TASK4

DEVELOPMENT OF PROGRAMS FOR THE ORGANIZATION OF NON-AGRICULTURAL TYPES OF EMPLOYMENT, INCLUDING INNOVATIVE TYPES OF TOURISM IN MUNICIPALITIES (RURAL AREAS) OF THE STAVROPOL TERRITORY

### TASK5

GEOSPATIAL MODELING OF RURAL DEVELOPMENT IN THE STAVROPOL TERRITORY, TAKING INTO ACCOUNT VARIOUS NATURAL AND SOCIO-ECONOMIC FACTORS IN MAKING MANAGEMENT DECISIONS

### TASK6

RECOMMENDATIONS FOR THE DEVELOPMENT AND IMPLEMENTATION OF SUSTAINABLE DEVELOPMENT STRATEGIES MUNICIPALITIES IN ACCORDANCE WITH THE PECULIARITIES OF THE RESOURCE POTENTIAL AND RURAL DEVELOPMENT

### TASK7

TRAINING OF MUNICIPAL EMPLOYEES IN ORDER TO SUBSTANTIATE DEVELOPMENT PROJECTS, ATTRACT AND USE FINANCIAL RESOURCES FOR THE DEVELOPMENT OF RURAL AREAS THROUGH ADVANCED TRAINING AND MASTER'S DEGREE PROGRAMS

# Monitoring of sustainable Socio-economic development of rural areas

## KEY AREAS OF WORK:

1. Collection, consolidation and analysis of data on the socio-economic condition of rural territories of the Stavropol Territory.
2. Formation of a database and indicators for the socio-economic condition of rural areas.
3. Generalization of monitoring results and development of recommendations for regional and municipal management decisions.
4. Academic support through the master's program "Management of Rural Development Projects".

Evidence from the 2025 self-assessment report

Priority area

**1 of 5**

Sustainable rural development

Network programs

**19**

Implemented in 2025

Master's programs

**10**

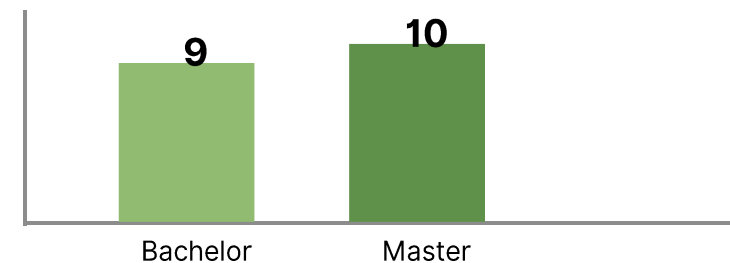
In network format

Growth

**+70%**

Compared with 2024

Programs in network format



Source: StGAU self-assessment report for 2025

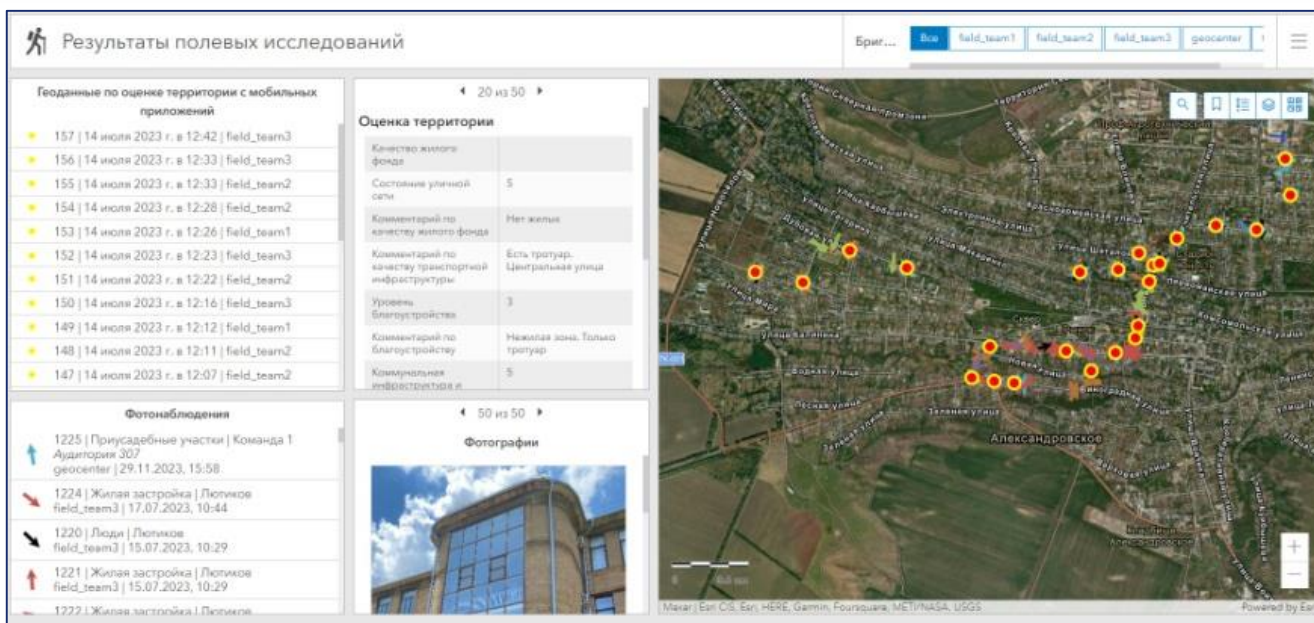
# The results of field research in 2025 (stage 2), as part of the work of the mirror laboratory

1. Monitoring of sustainable socio-economic development of rural areas
2. Collection, consolidation and analysis of data on the socio-economic condition of rural territories of the Stavropol Territory.
3. Comprehensive survey of settlements classified as rural territories.
4. Formation of a database and indicators of the socio-economic condition of rural areas.
5. Generalization of monitoring results and development of recommendations for regional and municipal management decisions.
6. Sustainable rural development is one of the university's priority development areas
7. In 2025, the university implemented 19 network educational programs, including the master's program Management of Rural Development Projects."

## DIFFERENTIATION FACTORS RURAL SPACES:

- ✓ Proximity to the regional center – sharp contrasts in the suburban area
- ✓ The presence of an administrative status
- ✓ Transport and geographical location
- ✓ Agro-industrial complex - gentrification in Alexandrovsky and hydrography – barrier function of reservoirs

## INTERFACE OF THE GEOPORTAL OPERATING PANEL: POINTS OF THE ROUTE TO THE VILLAGE OF ALEXANDROVSKOYE



Результаты полевых исследований

Геоданные по оценке территории с мобильных приложений

№	Дата	Время	Команда
157	14 июля 2023 г.	12:42	field_team3
156	14 июля 2023 г.	12:33	field_team3
155	14 июля 2023 г.	12:33	field_team2
154	14 июля 2023 г.	12:28	field_team2
153	14 июля 2023 г.	12:26	field_team1
152	14 июля 2023 г.	12:23	field_team3
151	14 июля 2023 г.	12:22	field_team2
150	14 июля 2023 г.	12:16	field_team3
149	14 июля 2023 г.	12:12	field_team1
148	14 июля 2023 г.	12:11	field_team2
147	14 июля 2023 г.	12:07	field_team2

Оценка территории

Качество жилого фонда	
Состояние уличной сети	5
Комментарий по качеству жилого фонда	Нет жилья
Комментарий по качеству транспортной инфраструктуры	Есть тротуар. Центральная улица
Уровень благоустройства	3
Комментарий по благоустройству	Нежилая зона. Только тротуар
Коммунальная инфраструктура и т.д.	5

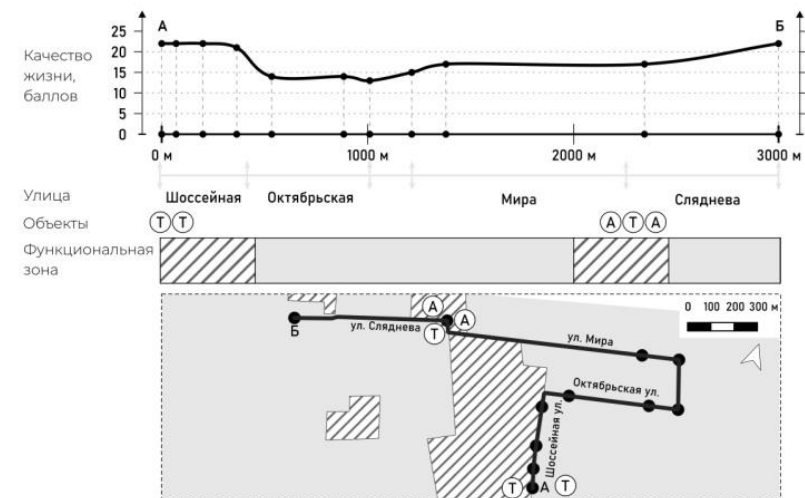
Фотонаблюдения

1225	Приусадебные участки   Команда 1
1224	Жилая застройка   Лопиков field_team3   17.07.2023, 10:44
1220	Люди   Лопиков field_team3   15.07.2023, 10:29
1221	Жилая застройка   Лопиков field_team3   15.07.2023, 10:29
1222	Жилая застройка   Лопиков

Фотографии

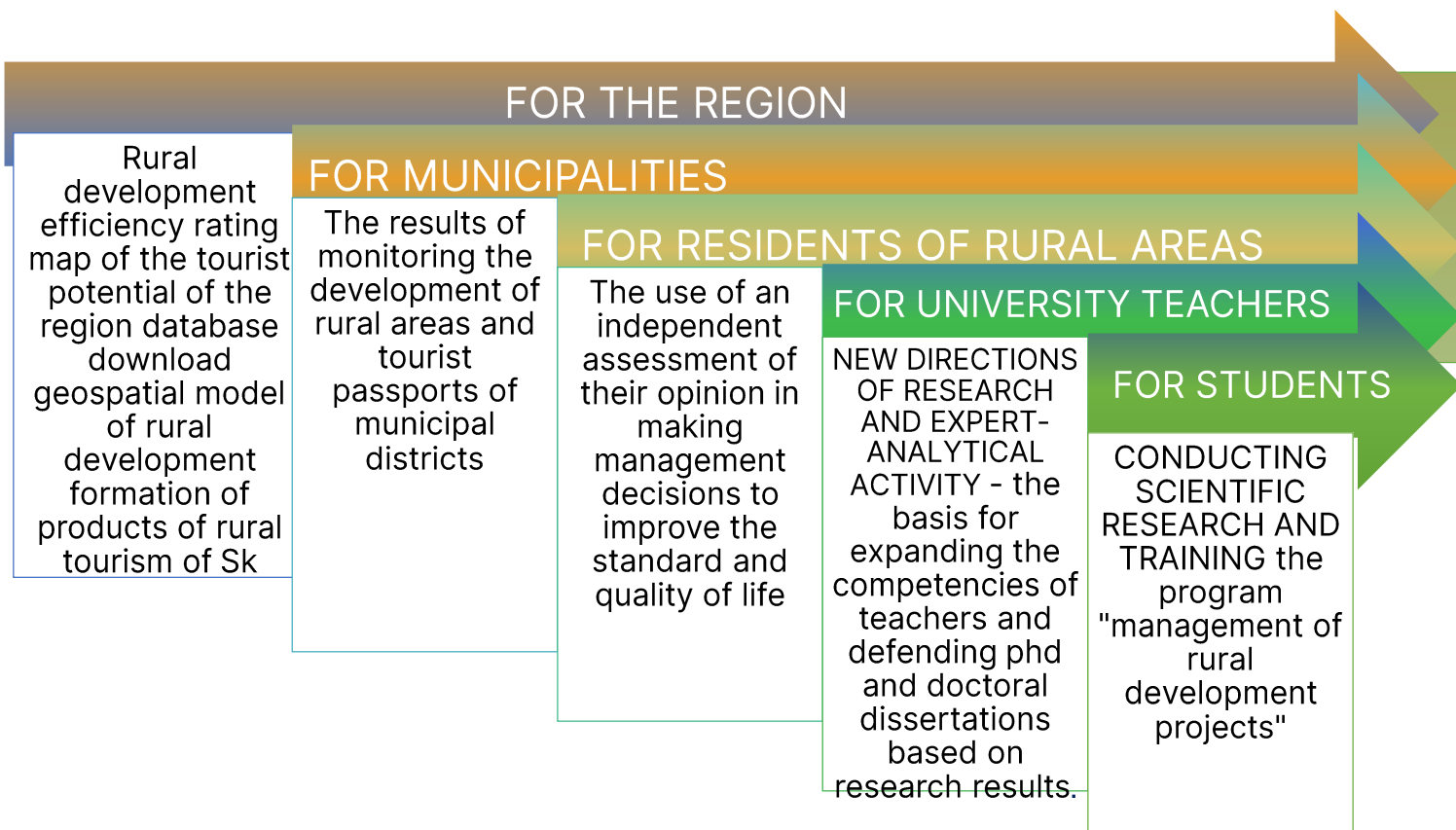
Александровское

## ALEXANDROVSKOYE VILLAGE SOCIO-ECONOMIC PROFILE AND FUNCTIONAL AREAS

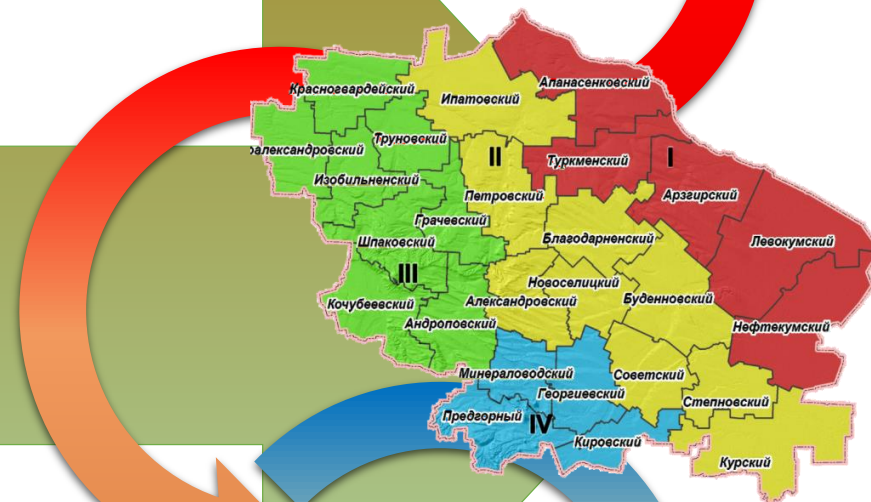




## THE RESULT OF THE STRATEGIC PROJECT



## PRODUCT-ORIENTED POLICY



## INTEGRATED RURAL DEVELOPMENT



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AND INFRASTRUCTURE



Assessing Parameters of Sustainable Rural Development: A Quintuple Economy-Society-Environment-Governance-Innovation Nexus  
Sashkova, I., Ivolga, A.G., Lisova, O.M., Esaulko, A.N., Pavlenko, I.G.  
Journal of the Knowledge Economy  
2025

Leadership Gone Wrong: Investigating the Effects of Despotic Leadership on Employee Success Through Job Insecurity and Emotional Exhaustion  
Sharif, M.N., Zhang, L., Raza, A., Akram, K., Ivolga, A.G.  
Journal of the Knowledge Economy  
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Determining the Composition of Integrated Reporting Indicators Under Uncertainty: Innovation-Based Convergence of Economic, Managerial, Social, and Environmental Contexts  
Erokhin, V., Bobryshev, A.N., Tianming, G., Malinovskaya, N.V., Zargaryan, N.R.  
Journal of the Knowledge Economy  
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Harnessing Nanocatalysts for Sustainable Chemical Processes: Innovations in Green Chemistry  
Kashezheva, M., Kedakhezheva, R., Morozov, V.Y., ... Kuchuk, O., Simonov, A.N.  
Asian Journal of Green Chemistry  
2025

Adaptation of Life Cycle Costing Practices to Financial Performance Analysis in Transitional Economies: The Experience of Russian Manufacturing Firms  
Erokhin, V., Bobryshev, A.N., Manzhosova, I.B., ... Shamrina, S.Y., Agafonova, N.P.  
Journal of the Knowledge Economy  
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Innovative Technologies for Food Security in the Arid Territories of Southern Russia  
Nazirkhan, G., Gilyan, V., Ryazantsev, I.I., Abdurakhman, G., Tatyana, E.  
South of Russia: Ecology, Development  
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Concept of a Multilevel Network Infrastructure for Monitoring Agricultural Facilities Based on Wireless Sensor Networks  
Samoylenko, V.V.  
Advanced Engineering Research Rostov on Don



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Kapov, S.N., Bobryshov, A.V., Koroleva, E., Ospanova, S., Smailova, B.  
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Professional Goal-Setting of Agricultural Education Graduates as a Factor of Sustainable Rural Development  
Karpenko, I., Lesnikh, Y.G., Chudnova, O.A., Kalashova, A., Ivashova, V.A.  
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Formation of Research Skills for Students in Agricultural Education  
Gritsay, D.I., Karpenko, I., Shvatchkina, L., Mogilevskaya, G., Kotlyarov, E.  
Lecture Notes in Networks and Systems  
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Economic Growth and Human Capital Formation in Rural Areas: Patterns, Trends, and Development Prospects  
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Sustainable Practices for Enhancing Pea Productivity Through Biological Preparations in Southern Russia  
Shabalda, O.G., Shutko, A.P., Maznitsyna, L.V., Golub, A.S., Glupov, V.V.  
Lecture Notes in Networks and Systems  
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A. V. Vostrukhin, M. A. Mastepanenko, I. N. Vorotnikov, E. A. Vakhtina  
Agroengineering  
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Technological Methods for Ensuring the Quality of Repair of Service-Life-Critical Engine Assembly Units  
Baganov N.A., Zhevora Y.I., Zubenko E.V., Maryin N.A., Volkova K.S.  
Technical Service of Machines  
2025

Development of a Mechanism for the Comprehensive Assessment of the Condition of Agricultural Landscapes and an Interactive Agroecological Passport Using a Regional Geographic Information System  
V. Y. Malochkin, A. V. Loshakov  
International Agricultural Journal  
2025

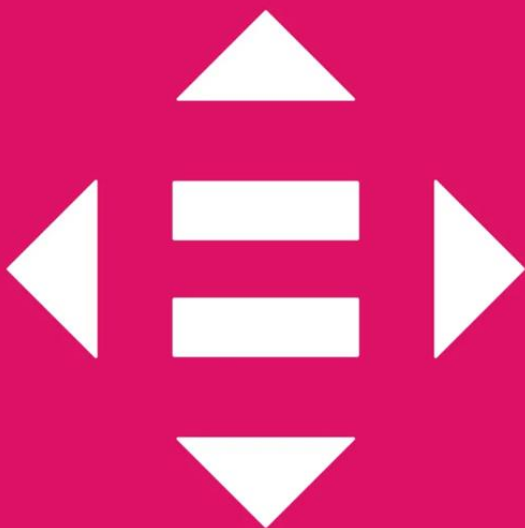
Stabilization of Titanium Dioxide Nanoparticles with Methylcellulose  
Nagdalyan A.A., Golik A.B., Pirogov M.A., Nazaretova E.D., Verevkina M.N., Simonov A.N., Tatov A.V.  
Nanoindustry  
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Determination of Optimal Options for Connecting and Combining Compensating Devices in a 0.38 kV Electrical Network  
M. A. Yundin, K. M. Yundin, A. M. Isupova  
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Equipment for Milk Processing and Treatment in Private Subsidiary and Farm Households  
V. V. Odnoprienko, D. I. Gritsay, E. I. Kapustina  
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I. Y. Sklyarov, Y. M. Sklyarova, E. V. Popovskaya  
Economics, Labor, and Management in Agriculture  
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# 10 REDUCED INEQUALITIES

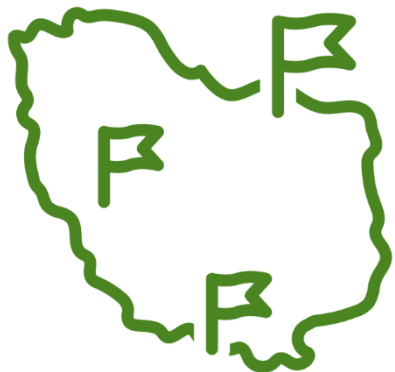


**Goal 10:  
Reduce inequality within  
and  
among countries**

# Educational programs for training specialists in the field of sustainable development of territories

**In 2025: 9 new educational programs launched, 6 existing programs updated.**  
**Focus areas: agrarian economics, regional governance, project management, human resource management. Programs:**

- 38.03.01 Economics — World Agrarian Markets
- 38.03.01 Economics — Agrarian Economics and Management
- 38.04.01 Economics — Economics and Management in Agribusiness
- 38.04.02 Management — Project Management for Rural Development
- 09.04.02 Information Systems and Technologies — Development and Support of Information Systems in the Agro-Industrial Complex



# Scientific and educational projects in the field of reducing inequality within and between countries



**SSAU together with HSE University has created a mirror laboratory to develop a new spatially differentiated approach to the management of the Stavropol agro-industrial complex.**

The Laboratory for Monitoring Sustainable Socio-Economic Development of Rural Areas of Stavropol State Agrarian University together with the Institute of Agrarian Research of the Higher School of Economics (Moscow) is implementing a project in the direction of "Spatial analysis as a key tool for managing rural development in the region: principles, methods, practical recommendations".



# Stavropol State Agrarian University discussed key challenges in rural development

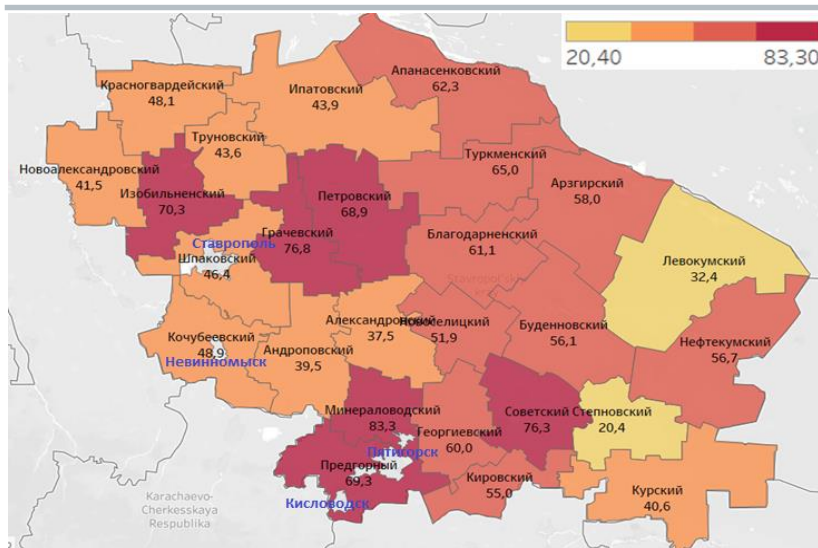


On 25 March 2025, Stavropol State Agrarian University held the forum “Education. Personnel. Economy — 2025,” where participants discussed urgent issues of rural development, including кадровое обеспечение the agro-industrial complex, social infrastructure, youth employment, regional economic disparities, and the tourism potential of rural areas.

The round table highlighted the need for closer cooperation between universities, businesses, and local authorities to improve rural livelihoods and strengthen the region’s agricultural and socio-economic development.



# Scientific and educational projects in the field of reducing inequality within and between countries



The proportion of rural residents who do not consider the development of alternative employment as a priority, %



## Key areas of work:

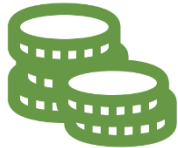
1. Collection, compilation and analysis of data on the socio-economic condition of the municipality, through a comprehensive survey of the territory. Preparation of analytical materials.
2. Formation of a database and indicators of the level of socio-economic condition of the territory of municipalities and the region
3. Monitoring of socio-economic development of the municipality and development of recommendations for its development management
4. Forecasting of socio-economic development of municipalities
5. Development of a Strategy for the socio-economic development of the municipality
6. Development of the passport of the municipality and recommendations for its management
7. Consulting support of regional and municipal authorities on issues of integrated rural development



# Identified problems of rural development



The outflow of the able-bodied population. Depopulation of rural areas



Low income level of the rural population



Aging of the rural population and youth by the age of 18



Low employment and high unemployment



Diversification of activities





# Creation of a problem-oriented center for rural development in the South of Russia

## SOLUTIONS

### Rural Development Center of the South of Russia

- ✓ Identification, analysis and development of solutions based on the social expectations of rural residents
- ✓ Monitoring the effectiveness and quality of the implementation of federal, regional, and municipal programs
- ✓ Professional development of management teams



## RESULTS

**Profiles of rural areas**  
(for the population, entrepreneurs, authorities)

**Development strategies of 26 city and municipal districts**

**Geo-information system "Rural territories of the region"**

**New educational programs**  
(Master's degree and APE)

**30**

The growth of the tourist flow

**12**

Quality of life standards



## Stavropol State Agrarian University students cleaned up the ecological trail in the Aleksandrovsky nature reserve

On 2 June 2025, active students of Stavropol State Agrarian University took part in a cleanup campaign in the Aleksandrovsky nature reserve. Together with local administration staff, gamekeepers, and university teachers, they cleared the ecological trail of overgrown vegetation, removed litter, and prepared more than 10 kilometers of routes for the summer tourist season.

<https://stgau.ru/media/news/studenty-stgau-ocistili-ekologiceskuiu-tropu-v-aleksandrovskom-zakaznike>





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Problems of Social Justice in the Age of Digitalization: A Socio-Philosophical Analysis  
S. P. Zolotarev  
Kant  
2025

The State of the Agro-Industrial Complex and the Development Trends of Rural Territories in Stavropol Krai  
Yu. S. Aleksandrova  
Academia Znanii  
2025

# 11 SUSTAINABLE CITIES AND COMMUNITIES



**Goal 11:  
Make cities inclusive, safe,  
resilient  
and sustainable**

# General information on SSAU



In terms of the occupied area, SSAU is one of the largest agricultural universities in the country, which in its structure has 105 real estate objects with a total area of 163,958.41 sq. m, including: 124.3 thousand sq. m - educational and laboratory facilities (75.8%); 37.6 thousand sq. m - hostels; 9459.1 hectares of land, of which 9422 hectares are agricultural lands.

The University campus facilities are located in several areas - in the center of Stavropol and in the industrial zone of the city, which sets the priorities of the campus policy.

Student dormitories are located within walking distance from educational buildings in each of the territories. The University pays much attention to ensuring the security of all its facilities, therefore, starting in 2013, a modern access control system (ACS) based on the Sigur software, developed at the University, has been introduced.

All buildings and structures are included in a unified access control and management system.

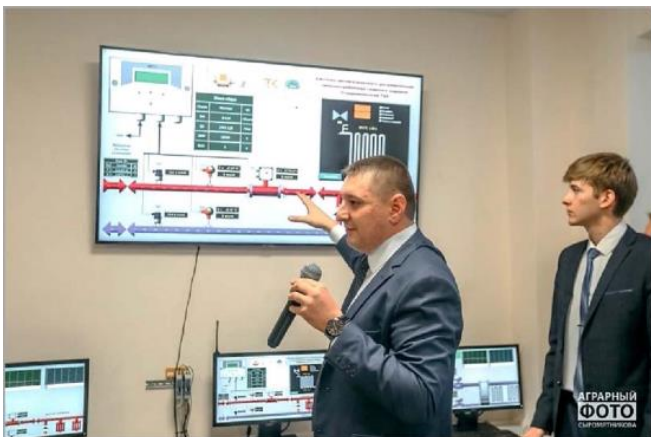
The University became the first university in the South of Russia to introduce a biometric facial recognition system using artificial intelligence and computer vision "Vizir", which identifies visitors passing through the turnstile.

The ACS system includes 35 turnstiles and 440 video surveillance cameras.

## Educational and research laboratory of SSAU "Energy efficient Technologies heat consumption and dispatching"



### Faculty of Electrical Power



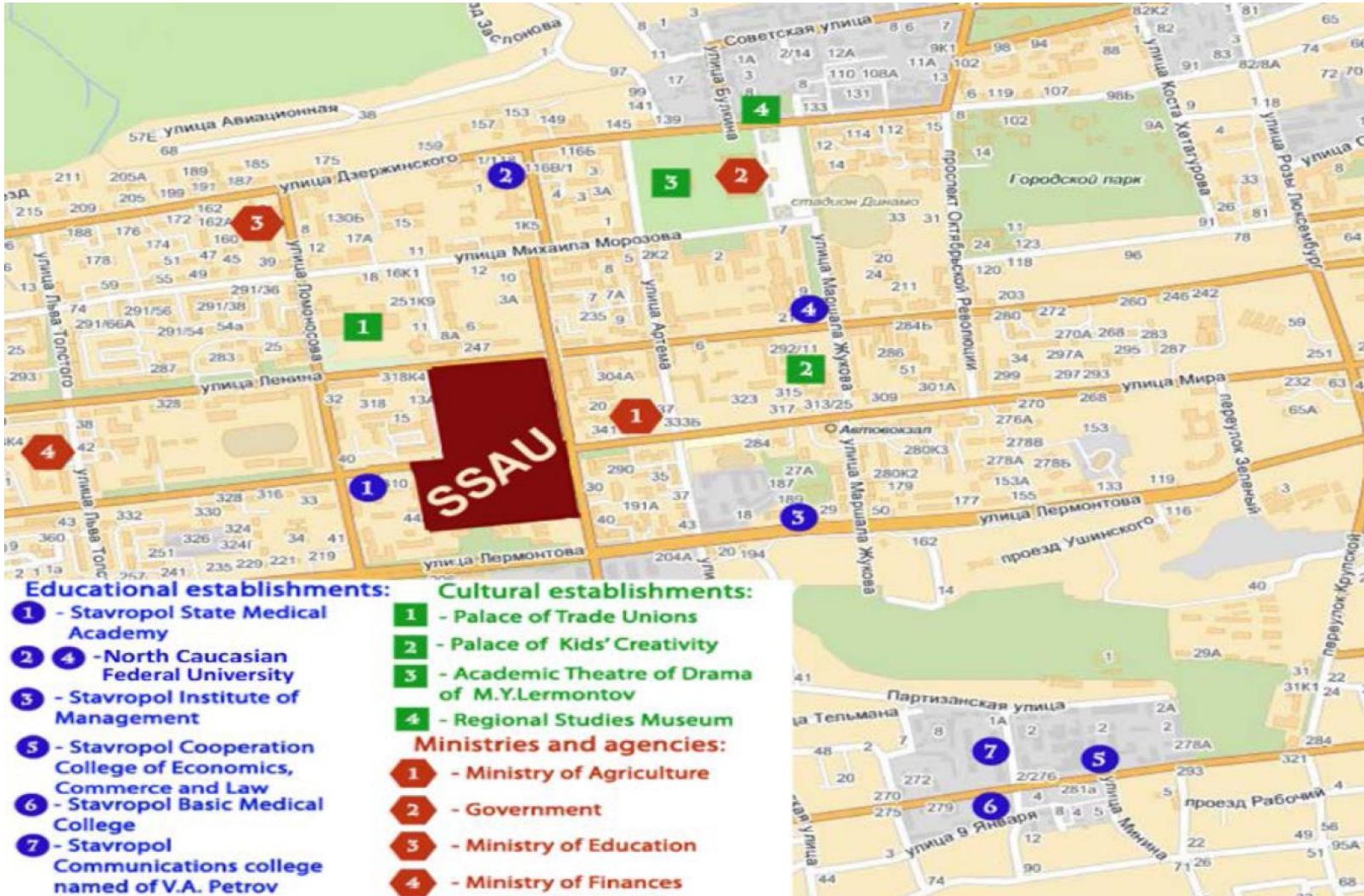
In 2018, SSAU together with strategic partners - the companies TEPCOM, VZLET (St. Petersburg) and JSC Teploset (Stavropol) developed and implemented an automated complex for remote dispatch control and management into the thermal power system of SSAU heat consumption parameters of the university, which allows real-time remote monitoring and control of heat consumption parameters (heating and hot water supply systems), taking into account automatic weather compensation of the coolant temperature. Savings of the University from the introduction of this system in 2019-2020 amounted to 135,714.28 euros.



**A comprehensive system of alternative energy sources also operates on the campus, which allows illuminating both the inner and the adjacent urban area at night.**



# General information on SSAU Social environment of the main building of the university



# Providing public access to buildings and / or monuments or landscapes of natural heritage of cultural significance



1887, the building of the Caucasian Diocesan Women's School



2023 the Main building of the main campus of SSAU

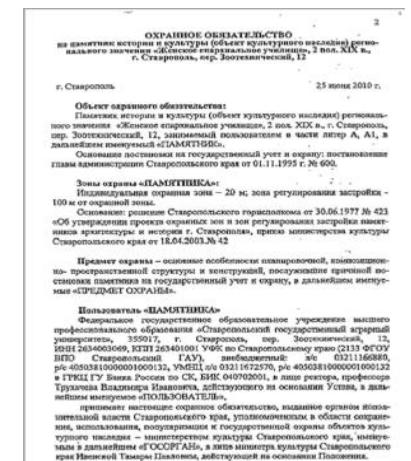
In 1875, on the initiative of Bishop German of the Caucasus and Yekaterinodar, by decree of the Holy Government Synod and with the permission of Emperor Alexander II, a diocesan school for women was opened in Stavropol. In 1887, according to the project of the famous Stavropol architect Fyodor Karlovich Knorre, the own building of the Caucasian Diocesan Women's School was erected on the northeastern side of Sofievskaya Square. This extraordinary three-storey building made of polished shell-rock, facing Nevinnomysskaya street (today - Mira street), has become a special phenomenon in the provincial center. On its third floor, in a large hall full of sunlight, a house church in honor of the Tikhvin Icon of the Mother of God, renamed in 1896 in honor of the Intercession of the Most Holy Theotokos, settled. The building soon became cramped for three hundred pupils and teachers of the school. In 1908, engineer and architect Grigory Kuskov proposed a project to expand the building. No less venerable architect Andrian Petrovich Bulygin proposed his project. It was this project of expanding the building at the expense of an extension on Mitrofanovsky (today - Zootechnical) lane that was approved by a special diocesan commission. In 1910, the construction of a three-story extension began, to a large extent repeating the facade drawing of the first building.

The construction lasted for over five years. The newly built building with two main entrances was an example of urban planning, becoming the most majestic in Stavropol. In 1932, the sheep breeding institute moved from Moscow to the building of the former diocesan school, later transformed into SSAU.

The building of the main building of SSAU is officially recognized as a historical and cultural monument of regional significance.



A protective commitment that confirms the historical and cultural value of the main building of SSAU



## Territory of the Main building of SSAU -

an open area for city, regional, federal and international projects, events, programs in the field of culture and sports, volunteering, dialogue between the authorities and the local community



## Topol Pobedy Planted in Stavropol Krai as Part of the “Garden of Memory” Campaign



**Students of Stavropol State Agrarian University also took part in the event.**

As part of the 2025 international “Garden of Memory” campaign, a clone of the legendary Stalingrad Topol Pobedy was planted in the Victory Park of Nevinnomyssk, commemorating those who died during the Great Patriotic War. The event will contribute to the regional goal of planting around 92,000 trees this year in memory of the fallen.

<https://rosleshoz.gov.ru/news/yufo/klon-legendarnogo-topolya-pobedy-vysadili-v-ramkakh-mezhdunarodnoy-aktsii-sad-pamyati-v-stavropolskom-krae/>



# Providing public access to buildings and / or monuments or landscapes of natural heritage of cultural significance

In the territory of Stavropol State Agrarian University, there is a unique space for students — the Youth Square — with a total area of about 4,000 square meters.

The square stretches almost the entire length of the campus, from Lenin Street to Mira Street. The area is regularly maintained, and university events and student activities are held there periodically.

It features an amphitheater designed for 650 people and equipped with modern multimedia technology. A pedestrian LED fountain has also been installed, along with recreation areas with benches, canopies, and trash bins. In addition, trees have been planted, lawns have been laid out, and night lighting elements have been installed.



[https://vk.com/wall-4730335\\_192361?ysclid=m238zmbk6856166401](https://vk.com/wall-4730335_192361?ysclid=m238zmbk6856166401)



# Providing public access to buildings and / or monuments or landscapes of natural heritage of cultural significance



Among the significant objects of the country's historical and cultural heritage there are buildings-objects of cultural heritage of regional significance. For example, on Mira street 345 in Stavropol there is a "House where general and historian I.D. Popko ". The historical monument was built in 1860. Today, this building houses the educational and laboratory building of SSAU, on the basis of which advanced training and professional training programs, as well as free education and retraining programs for people over 55 years old, are implemented.

Ivan Diomidovich Popko was the best connoisseur and writer of Cossack history, his works were published and highly appreciated even at the St. Petersburg Academy of Sciences.

For a long time, the building was in a state requiring major overhaul; it housed a night restaurant and private grocery stores. SSAU managed to obtain the right to manage the "House where the general and historian I.D. Popko "and by 2019 the building was overhauled and an official security obligation was received for it as an object of cultural heritage of regional significance (Stavropol Territory).



Protective obligation as an object of cultural heritage of regional significance



'The house where the general and historian lived I.D. Popko ', 2019



## "Monument to Student Records-Book" on the territory adjacent to the main building of SSAU

The young man, deeply immersed in the study of a textbook against the background of a huge record book, "sits" at the intersection of Lenin Street and Zootekhnicheskoy Lane, not far from the entrance to Stavropol State Agrarian University (SSAU).

The sculpture is 1 meter and 70 centimeters high and 3 meters wide. The author of the composition is Stavropol sculptor Vasily Chuikov, a member of the Union of Designers of Russia, laureate of the Governor's Prize in design.

Chuikov himself sincerely hopes that the monument will become a place of pilgrimage for students.

Indeed, not even an hour has passed since the opening, and the students have already come up with a new tradition - if you want to get a "pass" or "excellent" in the exam, be sure to touch the bronze record.





In the very center of the city of Stavropol, at the intersection of Pushkin and Lenin streets along the perimeter of the educational buildings of SSAU, in March 2019, the grand opening of Student Avenue took place. The holiday was attended by the first persons of the city and the region. The grand opening of Student Prospect united the youth of the city of Stavropol - more than 2,000 people took part in a significant historical event.

The Governor of the Stavropol Territory, Vladimir Vladimirovich Vladimirov, addressed the young generation with a welcoming speech: "For about 20 years, the long-term construction at this place was surrounded by a fence. And only in 2019, through the joint efforts of the city authorities and SSAU, the territory around the educational buildings of SSAU was equipped as a wide pedestrian zone with benches, lighting and "green" areas - 38 decorative linden trees, which were bred specifically for the urban environment.

Mayor of the city of Stavropol, graduate of SSAU (1984) - Andrei Khasanovich Dzhatdov (03.09.1962 - 30.04.2020) recalled his student years, within the walls of the university, noted the development of SSAU: "The new Student Avenue will become a favorite place of communication for all students of the city of Stavropol the pearl of the urban environment".

# Providing free public access to open green spaces of SSAU

## Examples of landscape designs of territories adjacent to SSAU

SSAU campuses are an integral space of educational, administrative buildings, student dormitories, sports complexes, outdoor sports grounds. The campus areas are open to the public. The main campus of SSAU is located in the very center of the city of Stavropol, which for many years has been the leader of the All-Russian competition for the most comfortable urban (rural) settlement. SSAU, sharing the policy of improvement of the city of Stavropol, since 2015, has been the winner of the city competition "The best territory adjacent to an enterprise, institution".



Territory of SSAU campus No. 2 - faculties biotechnological and veterinary medicine



Territory of the main campus of SSAU No. 1



Adjacent to SSAU dormitories city alley leading to the underpass - landscaping is maintained by SSAU specialists



The territory of the SSAU campus No. 2 - the alley leading to the operating veterinary clinic of SSAU, serving the pets of the city residents



Adjacent to the main building of SSAU No. 1 city alley leading to the underpass - lawns created by SSAU specialists



Flower beds at the central entrance new 11-storey dormitory of SSAU, decorated by specialists

# Providing free public access to open green spaces of SSAU Improvement of the streets of the city of Stavropol and the territories adjacent to the city



Territory of Kindergarten "Zhuravushka" next to campus number 1



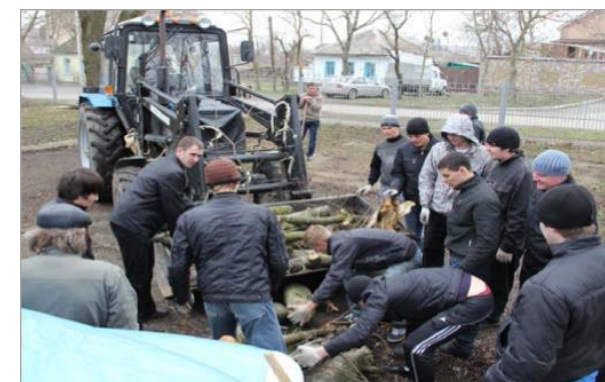
Old objects of the city of Stavropol



The adjacent territory to the campus of SSAU number 2 park zones



Territory of multi-apartment 9-storey houses located near dormitories of SSAU campus number 1



Territory of private households, located near the campus of SSAU number 2

# Priority of pedestrian access in SSAU campuses

The facilities of each of the 2 SSAU campuses - educational buildings, laboratories, utility rooms, dormitories, sports facilities are located within walking distance inside the SSAU territory.

But since each campus occupies one or two blocks in the city, and some facilities are located on opposite sides of city highways, SSAU pays special attention to the presence of pedestrian zones that ensure safe movement in the urban areas adjacent to the university not only for its employees and students, but and for city dwellers. Therefore, all objects of SSAU campuses can be reached via pedestrian crossings and an underground passage.



Underground passage from educational buildings of the main campus to 3 dormitories of SSAU

Pedestrian crossings leading to the educational buildings of the main campus and to the 11-storey dormitory of SSAU

Pedestrian crossings leading to the educational buildings of the main campus and to the 11-storey dormitory of SSAU

SSAU campus facilities are located in the very center of the city of Stavropol and in the center of one from the sleeping areas of the city of Stavropol, therefore SSAU took on voluntary responsibility for the improvement, lighting and landscaping of the urban areas adjacent to the buildings and dormitories of the campus.

SSAU, with the support of the Stavropol city administration, overhauled the underground passage through which students and residents of the city can safely go both to SSAU campus facilities and to other city objects - the perinatal center of the Stavropol Territory, an old church, kindergartens for children aged 3 to 7 years.

SSAU ensures the cleanliness of the underpass, and in winter - a safe anti-slip coating of the steps of the transition.



Underpass, 2000 - 2017



Underpass, 2023

# Bicycle parking on the campuses of SSAU

Walking is a priority way to move around the campuses of SSAU. Free entry and exit of cars is prohibited on the territory of SSAU. The territory of the campuses is equipped with bicycle parking.



# Provision of affordable housing for students (dormitories)



SSAU has 5 hostels for students. Places in the Campus are provided: nonresident and foreign students and postgraduates students of advanced training and professional retraining programs guests of SSAU for the period of their participation in the implementation of joint projects. Places in the dormitories of the Campus allocated to nonresident family students are determined by a joint decision of the SSAU administration and the student trade union based on the available housing stock.

To represent the interests of students in each hostel, there is a collegial public body of self-government - the student council of the hostel.

Student rooms correspond to the standards of equipment of student dormitories, are equipped with everything necessary for living -furniture and other equipment.

Equipped places for self-study, equipped with Internet access; a library, gyms and sports halls, conditions for the work of creative studios have been created.

The sports rooms of the hostels are equipped with exercise bikes, power trainers, wall bars, and punching bags.

On the territory of student dormitories there is a workout area, a universal sports ground with three play areas for volleyball, streetball and badminton.



# Providing affordable housing for employees

## An apartment building built for university staff



In 2005, a plot of land was allocated from federal land for SSAU for the construction of a multi-storey residential complex on Lenin Street, 482/1 with an area of 6301 m<sup>2</sup> with the transfer of the house to the permanent use of SSAU.

The construction of a multi-storey residential building was entrusted to the housing construction cooperative "Agrariy", which consists of SSAU employees - the future owners of apartments.

When designing the house, the requirements for compliance with environmental protection requirements were taken into account as much as possible, as well as for creating maximum convenience and comfort for apartment owners - the presence of a closed courtyard, a recreation area for adults and children, access roads, a parking area for personal vehicles, etc.

In November 2008, the house for employees was put into operation, and in the period 2009-2019. 223 employees with their families moved into the house. Until 2008, SSAU did not have its own house providing housing for its employees.



**On October 19, 2019, on the basis of the new educational building of SSAU, the official opening of the collective work space "Boiling points of SSAU" took place.**



The boiling point is a project of the Agency for Strategic Initiatives (ASI), which was launched in 2014 in Moscow.

In 2019, within the framework of the federal project, 82 "Boiling Points" were opened, of which 54 were created on the basis of universities. In 2019, the "Boiling Point of SSAU" was the only space for collective work opened on the basis of an agricultural university (there are 54 agricultural universities in Russia) as part of a project of the Agency for Strategic Initiatives.

Each of the Boiling Points has its own agenda and reflects the specifics of the region. "Boiling point of SSAU" is focused on the agricultural sector of the economy. The key areas are the promising markets of FoodNet (all segments), TechNet (competence in rapid 3D prototyping), EnergyNet (alternative energy for agriculture) and EduNet (educational technologies in the agricultural education system). "



## Mission "Boiling points" - rebranding of agriculture in the Stavropol Territory through improvement training systems for the future

<https://leader-id.ru/places/128>



The number of events within the Boiling Point - more than **250** The number of event participants - more than **6,000 people**

### Participants

- Students and schoolchildren
- Young Scientists
- University teachers and staff
- Representatives of business, public organizations and authorities
- Volunteers

### Event formats

- HAKATON
- BUSINESS
- ACCELERATOR
- TRAINING
- PRESS
- CONFERENCES
- FORESIGHT
- MEETINGS OF THE WORKING GROUPS
- STRATEGIC SESSIONS
- BRIEFING

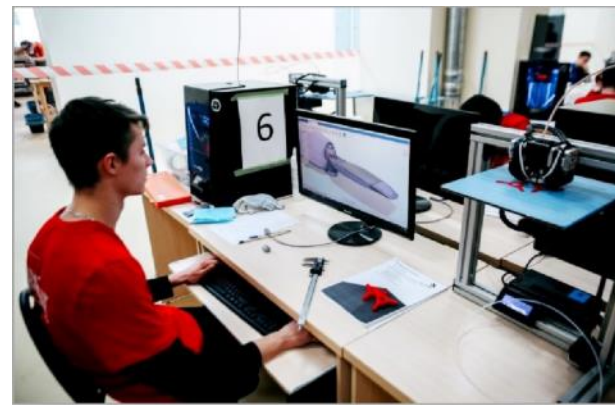




Center for youth innovative creativity **Fab Lab "VECTOR"** on the basis of SSAU - the first in Russia \* (\* - at the time of creation in 2017), accredited according to WorldSkills Russia standards, the national center for the competence "Prototyping" - conducts intensives, master classes, training for schoolchildren, students on a free basis



## Championship



Zavyalik Fedor



Korolevskiy  
Maxim



Visilev Dmitry



**Total area – 2300 m<sup>2</sup>**



**Storage facility – 700 m<sup>2</sup>**



**Reading room – 568,6 m<sup>2</sup>**

**User space – 1600 m<sup>2</sup>**

**Auxiliary storage – 186,6 m<sup>2</sup>**

## library infrastructure:

- Center for Bibliographic and Scientometric Information
- Educational support center
- Scientific library media center
- Reading room for researchers
- Reading room for visitors and library guests



## Providing public access to libraries, including books and publications Construction of new buildings in accordance with environmental standards



New academic building

Total area - **26 745,8 m<sup>2</sup>**  
Teaching and laboratory area - **20 317 m<sup>2</sup>**  
Auditorium capacity - **800 pl.**  
Library area - **3 900 m<sup>2</sup> (720 pl.)**  
Auditorium fund (**63 rooms**)  
Number of training places - **2542 pcs**  
Number of workplaces - **353 pcs**



Conference hall



Lecture hall-transformer "AtriUm"



Library co-working center



Lecture auditorium

# Providing public access to museums, exhibition spaces

## The History Museum of SSAU



The History Museum of Stavropol State Agrarian University has more than 45 years of history.

The museum is the keeper of history, the memory of the university. Here you can get acquainted with the cultural and historical heritage of the university entrants, students, and its guests. Employees come here to share interesting material or, on the contrary, to get the information they need. After all, the history of SSAU is not only the history of buildings, classrooms, educational buildings, it is, first of all, the history of the formation of the teaching staff, the development of scientific schools.

That is why the Museum of the History of the University is a unique place for storing the rich history of SSAU and its traditions, a place for students to familiarize themselves with this priceless heritage.

Currently, there are 30 exhibition showcases in the museum hall, where more than 5 thousand exhibits are presented.



The Museum of History is implementing the Open Museum project, within the framework of which the residents of the city of Stavropol and its guests can plunge into the history of the development of SSAU and the agro-industrial complex of the Stavropol Territory.

More than 2,500 people visit the Museum of History annually

## The interethnic council of SSAU unites representatives of 8 diasporas



Key areas of work of the Interethnic Council strengthening friendly ties and interaction with national cultural centers of the region to maintain interethnic peace and interreligious harmony in the Stavropol Territory and the North Caucasian Federal District; implementation of cultural, educational programs and public initiatives that ensure the preservation and development of traditional culture, education and a distinctive way of life of representatives of ethnic groups studying at SSAU



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РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index

11 SUSTAINABLE CITIES  
AND COMMUNITIES



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Burgos, A.L., Morozova, A., Ivolga, A.G., Cuevas, G.  
Population, Space and Place  
2025

Integrated Development of Rural Areas of a Geostrategic Russian Region in the Context of Urbanization and Infrastructure Constraints  
Gerasimov, A.N., Skripnichenko, Y.S., Kapustina, E.I., Lelikova, E.I., Skripnichenko, V.Y.  
Lecture Notes in Networks and Systems  
2025

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Lecture Notes in Networks and Systems  
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Trends and Patterns of Demographic Processes in Rural and Urban Areas  
A. N. Gerasimov, E. I. Kapustina, V. Yu. Skripnichenko  
Economics of Agriculture of Russia  
2025

Differentiation of the Socio-Economic Space of Rural Settlements in Stavropol Krai  
Naumov A.S., Pryamitsyn A.A., Aniskina T.A., Gavdifattova F.N., Zvyagintseva O.S., Ivliev D.S.  
News (Proceedings) of the Russian Geographical Society  
2025

# 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



**Goal 12:  
Ensure  
sustainable  
consumption and  
production patterns**

**In 2025, SSAU launched and updated educational programs focused on agricultural economics, agribusiness management, rural development, digital information systems for the agro-industrial complex, agroengineering, and modern agronomy and animal breeding.**

38.03.01 Economics, profile “Agricultural Economics and Management”.

38.03.01 Economics, profile “World Agricultural Markets”.

38.04.01 Economics, profile “Economics and Management in Agribusiness”.

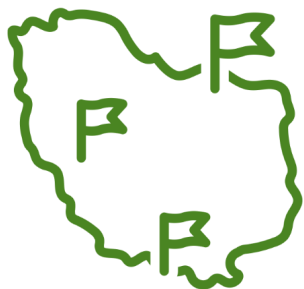
38.04.02 Management, profile “Project Management for Rural Development”.

09.04.02 Information Systems and Technologies, profile “Development and Maintenance of Information Systems in the Agro-Industrial Complex”.

35.04.06 Agroengineering, “Systems of UAV Control”.

36.04.02 Zootechnics, “Modern Breeding and Genetic Methods in Animal Husbandry”.

35.04.04 Agronomy, “Agrochemical Foundations of Plant Nutrition Management”.



**The University implements professional development programs aimed at building competencies for efficient, sustainable, and practice-oriented production in the agro-industrial complex.**

- Agricultural economics and management.
- Digital transformation of the agro-industrial complex and information systems support.
- Agroengineering and unmanned technologies for agricultural production.
- Animal breeding and genetic methods in livestock production.
- Agronomy and agrochemical management of plant nutrition.
- Practice-based training and service learning in 100% of curricula.



Within the framework of achieving the sustainable development goal “Goal 12: Ensure sustainable consumption and production patterns”, the university implements :

- **Hazardous Waste Disposal Policy**
- **Plastic Waste Reduction Policy**
- **Policies that ensure sustainable food cultivation**
- **Supplier’s Code of Ethics.**

ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ  
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  
«СТАВРОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»



#### ПОЛИТИКА ПО СОКРАЩЕНИЮ ПЛАСТИКОВЫХ ОТХОДОВ

Ресурсосбережение, обеспечение экологической безопасности, рационального использования природных ресурсов и охраны окружающей среды в настоящее время являются приоритетными направлениями в рамках реализации курса на устойчивое развитие. Одной из нерешенных задач на федеральном и региональном уровнях является создание инновационной, технико-экономической системы, позволяющей минимизировать количество пластиковых отходов, максимально обеспечить при этом ресурсосбережение, повторное вовлечение в хозяйственный оборот утилизируемых компонентов отходов в качестве сырья, материалов, изделий, превращение отходов во вторичное сырье для изготовления новой продукции и получения энергии.

Устойчивое развитие в данной сфере предусматривает требования к системе обращения с пластиковыми отходами. Для их выполнения принят порядок приоритетов в управлении потоками пластиковых отходов, регламентирующий использование таких возможностей, как

ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ  
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  
«СТАВРОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»



УТВЕРЖДАЮ  
Проректор  
СГАУ ВО  
Профессор  
А.В. ТРУХАЧЕВ  
Ставропольский ГАУ,

КОДЕКС ДЕЛОВОГО ПОВЕДЕНИЯ ЗАКУПЩИКА И ПОСТАВЩИКА  
СТАВРОПОЛЬСКОГО ГОСУДАРСТВЕННОГО АГРАРНОГО УНИВЕРСИТЕТА

#### Общие положения

1. В Кодексе делового поведения Закупщика и Поставщика (далее - текст) Ставропольского государственного аграрного университета используются следующие понятия:

Закупщик – работник Ставропольского государственного аграрного университета (далее – СГАУ), участвующий в организации и проведении закупки товаров, работ, услуг для нужд СГАУ.

Поставщик – юридическое или физическое лицо, в том числе индивидуальный предприниматель, способное поставить необходимые СГАУ товары, выполнить работы, оказать услуги, и участвующий в закупках СГАУ.

2. Никакое положение настоящего Кодекса не должно толковаться как идущее вразрез или допускающее совершение деяний, противоречащих положениям законодательства о закупках.

3. СГАУ поддерживает такие принципы сотрудничества с поставщиками, как добросовестная конкуренция, открытость и честность.

СГАУ дорожит своей репутацией честного, открытого и онополноушного участника закупочного процесса и стремится к созданию доверия со стороны делового сообщества. Репутация СГАУ,



Separate garbage collection is carried out at the university: paper; plastic; others.

There is a student volunteer group "Ecologist".

During the year, the student environmental group "Ecologist" organized the third, fourth and fifth competitions "Caps. Waste paper. Batteries" for higher and secondary educational institutions of the city, where prizes were waiting for participants.

As a result we collected 40 educational institutions participated, more than 130 kilograms of batteries, almost 107 kilograms of plastic bottle caps and over 4 thousand kilograms of waste paper.



# Scientific infrastructure and projects of the University in the field of ensuring rational consumption and production models

## Environmental Monitoring Laboratory

The main scientific activity of the laboratory is ecological monitoring of natural and anthropogenic–disturbed ecosystems.

As part of the implementation of the direction, research is being conducted in the field of :

- assessment of the composition and quality of natural mineral waters of the North Caucasus and Southern Russia;
- conducting a comprehensive environmental survey of specially protected territories of regional significance;
- determination of the level of degradation of ecosystems of low-water areas;
- monitoring and assessment of the vegetation condition of techno-genically disturbed territories;
- development of methods for processing curd and cheese whey);
- preparation of biologically active preparations of a given composition and properties based on salt concentrates of whey and mineral waters.

On the basis of the strategic partner of CJSC Shpakovskaya Poultry Farm, a resource-saving technology for processing poultry waste has been introduced: environmentally friendly biologically active fertilizers (ECOBAF), environmentally friendly granular organic fertilizers (ECOGOF), protein-vitamin concentrate (PVC) and an alternative energy source - biogas.5 patents for technical devices, 2 patents for a method of obtaining organic fertilizers. ECOBAF fertilizers are recommended for growing cereals, legumes, oilseeds, vegetables, berries. The laboratory offers individual studies together with the customer in his fields on the effectiveness of the use of fertilizers (ECOBAF) for different agricultural crops.



Assessing Parameters of Sustainable Rural Development: A Quintuple Economy-Society-Environment-Governance-Innovation Nexus  
Sashkova, I., Ivolga, A.G., Lisova, O.M., Esaulko, A.N., Pavlenko, I.G.  
Journal of the Knowledge Economy  
2025

Determining the Composition of Integrated Reporting Indicators Under Uncertainty: Innovation-Based Convergence of Economic, Managerial, Social, and Environmental Contexts  
Erokhin, V., Bobryshev, A.N., Tianming, G., Malinovskaya, N.V., Zargaryan, N.R.  
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The Regional Community's Request for the Quality of Farm Food: The Case of Residents of Stavropol Krai, Russian Federation  
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Siberian Journal of Life Sciences and Agriculture  
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РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index

12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



# 13 CLIMATE ACTION



**Goal 13:  
Take urgent action to  
combat climate change  
and its impacts**

EGSD	The direction of training	Profile	Disciplines	credits
05.00.00 Earth Sciences	<b>05.03.06 Ecology and nature management</b>	Environmental protection and environmental safety	<ol style="list-style-type: none"> <li>1. ESG -transformation</li> <li>2. Fundamentals of environmental management</li> <li>3. Social ecology</li> <li>4. Sustainable development</li> </ol>	12/432
38.00.00 Economics and Management	<b>38.03.01 Economics</b>	Global agricultural markets (network with MGIMO)	ESG -transformation	2/72
	<b>38.04.02 Management</b>	Project management	<ol style="list-style-type: none"> <li>1. Ecology</li> <li>2. Environmental, Social and Corporate Governance (ESG)</li> </ol>	4/144
	<b>38.04.02 Management</b>	Rural development project management	<ol style="list-style-type: none"> <li>1. ESG technologies</li> <li>2. Change management and sustainable rural development</li> </ol>	6/216

# Achieving sustainable development goals in the national agri-food system



**Cherednichenko Olga Alexandrovna,**  
Associate Professor of the  
Department of Economic Theory,  
Marketing and Agroeconomics



**Natalia Dovgotko,**  
Associate Professor of the Department of  
Economic Theory, Marketing and  
Agroeconomics

The results of the implementation of the RFBR scientific project No. 20-010-00375

**"Methodology for the formation and development of an organizational and economic mechanism for achieving sustainable development goals in the national agro-food system"**

**Published on the topic of the study 28 articles, of which: 16 are in journals indexed in the databases Web of Science, Scopus (2 articles Q1), RSCI, HAC**

**The results of the study were presented at 14 international and regional conferences at Moscow State University, St. Petersburg State University, IPRE RAS, Institute of Economics and Industrial Engineering, Siberian Branch of the Russian Academy of Sciences, SFU, etc.**



**The purpose of the project** is to conduct theoretical and experimental research for the scientific and practical substantiation of the concept of low-carbon development of the agricultural sector of the economy and the development of a set of sectoral measures for structural and technological transformation and adaptation of agribusiness in the Stavropol Territory to climate change

## Project objectives :

- to investigate the two-way relationship between climate change and the functioning of the agricultural sector of the economy, taking into account territorial differentiation, and to assess the level of vulnerability of objects to the negative impact of climate change in Russian regions;
- to study the global experience of implementing the climate agenda in the agricultural sector of the economy and assess potential economic risks for Russian exporters of agricultural products in the context of stricter requirements in the field of climate regulation abroad;
- to assess anthropogenic greenhouse gas emissions and their absorption in the agricultural sector based on calculation methods and direct measurements during experimental studies at test sites of agribusiness enterprises;
- to develop a concept of low-carbon development of the agricultural sector of the economy, to assess and forecast the carbon intensity of the agricultural economy in accordance with the intensive scenario of the Strategy of socio-economic development of the Russian Federation with low greenhouse gas emissions until 2050

# Participation of young people in urgent action to combat climate change and its impacts



Stavropol State Agrarian University students and faculty are volunteering to help wildlife affected by the Kerch Strait oil spill, providing care for birds and other animals at the Pelican wildlife rehabilitation center in Moscow Village, Stavropol Krai. Their work includes feeding, deworming, cleaning, and other veterinary treatments, while students at the university are also supporting cleanup efforts on the Black Sea coast near Anapa.

<https://stgau.ru/media/news/studenty-stgau-uxazivaiut-za-pticami-postradavsimi-ot-ekologiceskoi-katastrofy-v-kercenskom-prolive>





Scopus

РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index



Harnessing Nanocatalysts for Sustainable Chemical Processes: Innovations in Green Chemistry

Kashezheva, M., Kedakhezheva, R., Morozov, V.Y., ... Kuchuk, O., Simonov, A.N.  
Asian Journal of Green Chemistry  
2025

Formation of State Policy for the Adaptation of Agriculture to Climate Change: International Experience and Prospects for Russia

O. A. Cherednichenko  
Natural Sciences and Humanities Research  
2025

Agroecological Substantiation of Vineyard Placement for the Development of Wine Tourism in Stavropol Krai

Romanenko E.S., Novak M.S., Ivolga A.G., Pavlenko I.G., Ryazantsev I.I.  
Magarach. Viticulture and Winemaking  
2025

Improvement of Grain Sorghum Cultivation Technology in the Arid Zone

Volters I.A., Bagrintseva N.A., Vlasova O.I., Trubacheva L.V., Poltavskikh E.A.  
Agrophysics  
2025

# 14 LIFE BELOW WATER



## Goal 14:

**Conserve and sustainably  
use the oceans,  
seas and marine resources**

**Within the framework of achieving the sustainable development Goal "Goal 14: Conserve and sustainably use the oceans, seas and marine resources", SSAU implements :**

- **Environmental policy of SSAU**
- **Hazardous Waste Disposal Policy**
- **Plastic Waste Reduction Policy**

<https://old.stgau.ru/goals/eco/%D0%AD%D0%BA%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%87%D0%B5%D1%81%D0%BA%D0%B0%D1%8F%D0%9F%D0%BE%D0%BB%D0%B8%D1%82%D0%B8%D0%BA%D0%B0%D0%A1%D1%82%D0%93%D0%90%D0%A3.pdf>

<https://old.stgau.ru/goals/eco/%D0%9F%D0%BE%D0%BB%D0%B8%D1%82%D0%B8%D0%BA%D0%B0%D1%83%D1%82%D0%B8%D0%BB%D0%B8%D0%B7%D0%B0%D1%86%D0%B8%D0%B8%D0%BE%D0%BF%D0%B0%D1%81%D0%BD%D1%8B%D1%85%D0%BE%D1%82%D1%85%D0%BE%D0%B4%D0%BE%D0%B2.pdf>

<https://old.stgau.ru/goals/eco/%D0%AD%D0%BA%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%87%D0%B5%D1%81%D0%BA%D0%B0%D1%8F%D0%9F%D0%BE%D0%BB%D0%B8%D1%82%D0%B8%D0%BA%D0%B0%D0%A1%D1%82%D0%93%D0%90%D0%A3.pdf>

МИНИСТЕРСТВО СЕЛЬСКОГО ХОЗЯЙСТВА РОССИЙСКОЙ ФЕДЕРАЦИИ  
ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ  
УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  
«СТАВРОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ АГРАРНЫЙ УНИВЕРСИТЕТ»



**ЭКОЛОГИЧЕСКАЯ ПОЛИТИКА  
ФГБОУ ВО СтГАУ**

## Environmental control



The University organizes and conducts environmental control of its activities, including in the field of protection and use of water bodies.

The results of industrial environmental control are freely available on the University's website at the link:

<https://old.stgau.ru/goals/water/>

### 1. Общие сведения об организации и результатах производственного экологического контроля

Таблица 1.1. Общие сведения

№ п/п	Наименование данных	Данные
1	Полное наименование (сокращенное наименование) юридического лица или фамилия, имя, отчество (при наличии) индивидуального предпринимателя	Федеральное государственное бюджетное образовательное учреждение высшего образования «Ставропольский государственный аграрный университет» (ФГБОУ ВО Ставропольский ГАУ)
2	Наименование субъекта Российской Федерации, адрес юридического лица, место жительства индивидуального предпринимателя, с указанием почтового индекса	Юридический адрес: 355017, Ставропольский край, г. Ставрополь, пер. Зоотехнический, 12
3. ИНН	4. ОГРН (либо сведения о внесении записи в государственный реестр аккредитованных филиалов, представительств иностранных юридических лиц)	5. Наименование объекта, оказывающего негативное воздействие на окружающую среду (далее – объект)
2634003069	1022601993468	Площадка №1. Главный корпус университета совместно с территорией факультета агробиологии и земельных ресурсов и вспомогательных подразделений
6. Адрес места нахождения объекта	7. Код объекта	8. Категория объекта
г. Ставрополь, пер. Зоотехнический, квартал 112; ул. Мира, д. 302; 304/1; 306; 308; кадастровые номера земельных участков: 26:12-030114:13; 26:12-030120:10; 26:12-030120:33; 26:12-030120:32; 26:12-030120:31	07-0226-005214-П	III

### 3. Результаты производственного контроля в области охраны и использования водных объектов

Таблица 3.1. Сведения о результатах учета объема забора (изъятия) водных ресурсов из водных объектов и объема сброса сточных, в том числе дренажных, вод, их качества

Реквизиты письма (номер (при наличии) и дата), которым направлены сведения о результатах учета забора (изъятия) водных ресурсов из водных объектов и сброса сточных, в том числе дренажных, вод, их качества	Территориальный орган Росводресурсов, в который направлены результаты учета забора (изъятия) водных ресурсов из водных объектов и сброса сточных, в том числе дренажных, вод, их качества	Количество загрязняющих веществ, содержащихся в забранной (изъятый) воде из водного объекта (по каждому контролируемому загрязняющему веществу), тонн/год (заполняется в случае использования одного и того же водного объекта для забора воды и для сброса сточных вод)
1	2	
Не осуществляется пользование водными объектами		

Таблица 3.2. Сведения о результатах наблюдения за водными объектами (их морфометрическими особенностями) и их водоохранными зонами, а также о результатах учета качества поверхностных вод в местах сброса сточных, в том числе дренажных, вод выше и ниже мест сброса (в фоновом и контрольном створах)

Реквизиты письма (номер (при наличии) и дата), которым направлены сведения о результатах учета качества поверхностных вод в местах сброса сточных, в том числе дренажных, вод выше и ниже мест сброса	Федеральный орган исполнительной власти, орган исполнительной власти субъекта Российской Федерации или орган местного самоуправления, в который направлены результаты учета качества поверхностных вод в местах сброса сточных, в том числе дренажных, вод выше и ниже мест сброса	Реквизиты письма (номер (при наличии) и дата), которым направлены сведения о результатах наблюдения за водными объектами (их морфометрическими особенностями) и их водоохранными зонами	Территориальный орган Росводресурсов, в который направлены сведения о результатах наблюдения за водными объектами (их морфометрическими особенностями) и их водоохранными зонами
1	2	3	4
Не осуществляется пользование водными объектами			

## Student involvement in assessing water quality and protecting freshwater ecosystems.

### StGAU students tested Stavropol water bodies for pollution

Students from the Ecology and Nature Management program collected and analyzed water samples from the Tashla and Mamayka rivers and the Komsomolsky Pond using a biotesting method. The study showed that Komsomolsky Pond had the cleanest water, with phytotoxicity of 21%, while the Tashla River was the most affected by human impact, with phytotoxicity of 43%.

<https://stgau.ru/media/news/studenty-stgau-priniali-ucastie-v-uborke-pribreznoi-zony-reki-tasla>

<https://stgau.ru/media/news/studenty-stgau-proverili-na-zagriaznennost-vodnye-objekty-stavropolia>



РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index



# 15 LIFE ON LAND

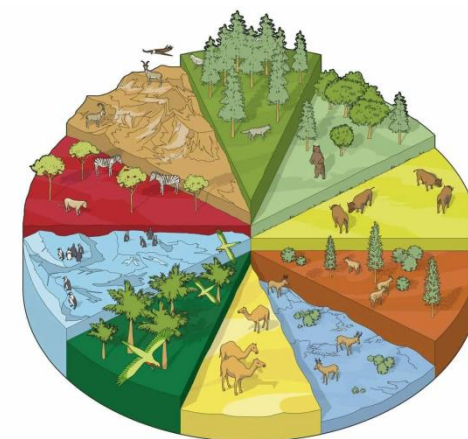


**Goal 15:  
Sustainably manage forests,  
combat desertification, halt  
and reverse land  
degradation, halt  
biodiversity loss**

Strategic guidelines at national and university level Formed in Russia, an extensive and comprehensive legislative framework in the field of natural resource management and environmental protection is evolving towards the development of environmental principles and increasing environmental responsibility, detailing and deepening state regulation of the rational use and protection of natural resources, improving the distribution of powers between levels of government (federal, regional) and local self-government, improving control and supervisory activities, developing institutions of public control and enhancing the role and participation of civil society in ensuring the constitutional rights of citizens to a healthy environment. In recent years, responsible business companies and non-governmental organizations have become a serious agent for preserving the environment. The national project "Ecology" is aimed at ensuring the environmental safety of Russia, which includes the projects "Clean Water", "Rehabilitation of the Volga", "Preservation of Lake Baikal", "Preservation of unique water bodies", "Preservation of forests", "Preservation of biological diversity and "Development of ecological tourism".

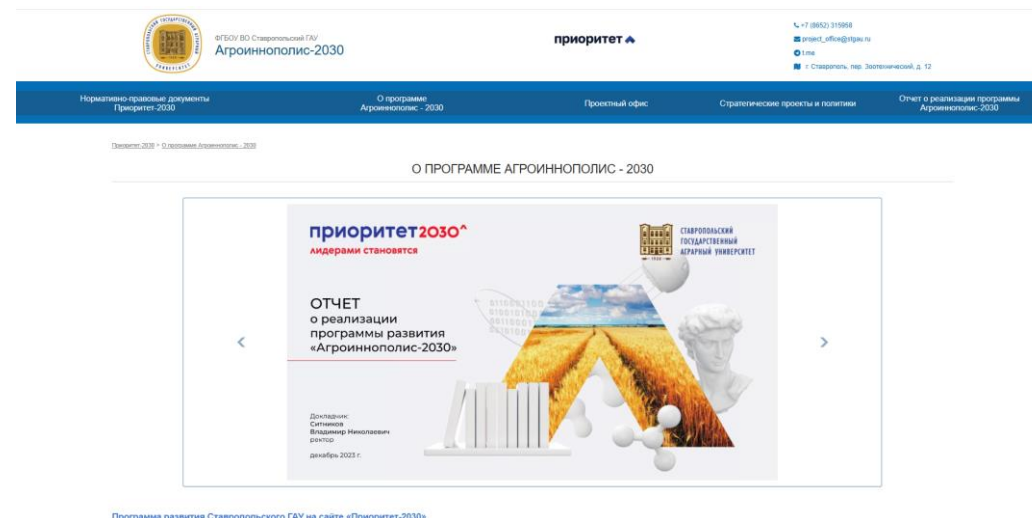
As measures for the protection and rational use of land resources in Russia, work is being carried out to restore and reclaim degraded and disturbed lands. Measures for the protection and rational use of land are carried out, inter alia, within the framework of national strategies. The main objectives of the Strategy for Environmental Safety of the Russian Federation for the period up to 2025 include the elimination of accumulated harm to the environment and the prevention of land and soil degradation.

The Strategy for Sustainable Development of Rural Areas of the Russian Federation for the period up to 2030 sets a task to preserve and improve the land fund. To achieve this task, the Strategy provides for such measures as: ensuring land protection from water erosion, flooding and waterlogging; introduction of cost-effective irrigation systems; ensuring land protection from wind erosion; creation of a system of protective afforestation that would increase the effectiveness of measures to combat land degradation and desertification, to restore soil fertility, ensure the country's environmental and food security, and reduce the level of discomfort in places of work and residence of the population. The Strategy for the Development of the Forestry Complex of the Russian Federation for the period up to 2020 established that in order to prevent the processes of desertification and land erosion, it is necessary to ensure the implementation of work on the creation and cultivation of protective forest plantations (anti-erosion, field protection, plantations on arid pastures and sands, along the banks of small rivers and around the villages).



At the university level, the Program for the Development of the Federal State Budgetary Educational Institution of Higher Education "Stavropol State Agrarian University" for the period 2021-2030. is a backbone document that defines the tasks and measures of the University to achieve **SDG 15 "Life on Earth"**, which implies the implementation of the following priority directions of the University's development:

- improvement of the saving biologized system of agriculture on an adaptive-landscape basis, which ensures the development of resource-saving technologies and technical means for optimizing production processes in the agro-industrial complex;
- improvement of the integrated system of animals protection from diseases of infectious and non-infectious etiology of biotechnological design of prophylactic agents of a new generation;
- improvement of economic production of ecologically clean and competitive agricultural products on world markets, ensuring financial stability and accelerated development of the agro-industrial complex;
- improvement of the main directions of rural areas development, ensuring the growth of employment of the rural population, harmonious development of the individual and an increase in human capital in the countryside;
- development of the recreational potential of the North Caucasian Federal District, including tourism, hospitality, ecology, ensuring biodiversity and rational nature management;
- an increase in the yield of cultivated crops, a decrease in the cost of production, an increase in soil fertility and an improvement in the ecological situation.



## StGAU students took part in an intensive program on modern crop production technologies.



<https://stgau.ru/media/news/studenty-stgau-poucastvovali-v-intensive-po-sovremennym-texnologiiam-v-rastenievodstve>

## The StGAU delegation visited the All-Russian Field Day.



<https://stgau.ru/media/news/delegaciia-stgau-posetila-vserossiiskii-den-polia1>

## SSAU projects and activities on conservation: plants, animals and wildlife, genetic resources for food production and agriculture, protected in the medium- or long-term prospects of environmental institutions

An SSAU graduate student established an experimental plot to evaluate and develop agronomic practices for a new winter wheat variety under the conditions of the Central Ciscaucasia

<https://stgau.ru/media/news/aspirant-stgau-provel-zakladku-opyta-po-vozdelyvaniuu-novogo-sorta-ozimoi-psenicy>

SSAU researchers published a teaching manual, “The Use of Micronutrients in Agriculture” to strengthen agronomy students’ professional competencies and support practical training in crop nutrition and soil fertility management.

<https://stgau.ru/media/news/ucenye-stgau-vypustil-ucebnoe-posobie-primeneniemikroudobrenii-v-zemledelii>

SSAU students studied the forest ecosystems of Stavropol Region at the North Caucasus Federal Agricultural Research Center and the Stavropol Botanical Garden, learning about forest stands, rare and relict species, and the environmental importance of local forests.

<https://stgau.ru/media/news/studenty-stgau-izucili-lesnyx-ekosistem-stavropolia>

SSAU scientists are developing measures to adjust crop nutrition and phytosanitary status through invasive and remote monitoring methods for winter wheat and maize, supporting sustainable agroecosystem management, soil fertility conservation, and reduced agrochemical use.

<https://stgau.ru/media/news/ucenye-stgau-razrabatyvaiut-mery-po-korrektirovkepitanii-i-fitosanitarnogo-sostoianiiia-kultur>





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Science Index



Innovative Technologies for Food Security in the Arid Territories of Southern Russia  
Nazirkhan, G., Gilyan, V., Ryazantsev, I.I., Abdurakhman, G., Tatyana, E.  
South of Russia: Ecology, Development  
2025

Development of a Mechanism for the Comprehensive Assessment of the Condition of Agricultural Landscapes and an Interactive Agroecological Passport Using a Regional Geographic Information System  
V. Yu. Malochkin, A. V. Loshakov  
International Agricultural Journal  
2025

Interrelationship of the Saline and Particle-Size Composition and the State of the Soil Absorbing Complex in Modern and Buried Soils of the Inozemtsevo Kurgan  
V. S. Tskhovrebov, M. M. Al-Darradji, V. I. Faizova  
Agrochemical Bulletin  
2025

Weed Infestation as an Indicator of the Phytosanitary Well-Being of Winter Wheat Crops  
A. S. Magomadov, Z. P. Okazova, Yu. A. Bezgina  
International Agricultural Journal  
2025

Monitoring of Trace Element Content in the Chernozems of the Central Ciscaucasia  
V. G. Sychev, Yu. I. Grechishkina, A. V. Matvienko  
Plodorodie  
2025

Integrated Development of Agrarian-Territorial Systems and Their Structured Potential  
O. S. Zvyagintseva  
Machinery and Equipment for Rural Areas  
2025

# 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



**Goal 16:  
Promote just,  
peaceful  
and inclusive societies**

In 2025, StGAU established new structural units, including the Department of Law, and continued improving its educational and upbringing activities while introducing digital tools to monitor the quality of learning. The university also paid attention to an inclusive educational environment: 64 students with disabilities studied in vocational education programs, and 32 staff members completed professional development on teaching students with disabilities and special educational needs. These results reflect the university's contribution to building just, inclusive, and sustainable institutions in line with **Goal 16**.

<https://stgau.ru/media/news/bolee-100-agronomov-prosli-povysenie-kvalifikacii-v-stgau>





Scopus

РОССИЙСКИЙ ИНДЕКС  
НАУЧНОГО ЦИТИРОВАНИЯ



Science Index



On the Essence of Economic Law and Its Place in the System of Scientific Knowledge

N. V. Miroshnichenko, V. Y. Maksimov

Bulletin of Economics, Law and Sociology  
2025

General Characteristics of Measures Aimed at Preventing Recidivist Crime

N. V. Miroshnichenko, L. V. Ryabova, O. N. Savchenko, T. D. Avetikova

Legal Science  
2025

# 17 PARTNERSHIPS FOR THE GOALS



**Goal 17:  
Revitalize  
the global partnership  
for sustainable development**

## Key priorities/directions

1. Intensification of research and international activities of the University (academic mobility of students and SPS).
2. Preparation of students to participate in global international student Olympiads, scientific and pedagogical workers - to participate in the selection for prestigious and innovative scientific awards – to increase the recognition of the university as a developer of technologies and an educational center in such areas as smart and highly productive agriculture, technologies of biologization of agriculture, animal genomics and biotechnology, development and application of digital and engineering solutions in agriculture, and an active participant in achieving sustainable development goals in order to form sustainable scientific and business communications.
3. Development of the University as an attractive educational center for foreign citizens due to: participation in educational exhibitions and fairs in Russia and abroad; increasing the number and efficiency of international agreements and agreements concluded on double degree programs; international student mobility and academic exchanges; increasing the number of foreign citizens studying at the expense of the federal budget of the Russian Federation (quotas), etc.
4. Development of intercultural communication through: implementation of programs to promote the Russian language and intercultural communication; involvement of foreign students in socially significant project activities of the university; identification and development of talents among foreign students through support of creative self-realization (participation in the work of amateur teams and sports sections of the university), etc.

## Building Global Academic Links

One of the main directions of the university's international cooperation in 2025 was the expansion of academic partnerships and the strengthening of its position in the global educational and research space.

In 2025, Stavropol State Agrarian University took part in the "Hainan-2025 — Science, Education, Innovation" Forum in China, expanded its partner network to 40 organizations from 12 countries, and increased the number of international students by 37.5%.

<https://www.stav.kp.ru/online/news/6583475/>



Stavropol State Agrarian University held “**Robotics & Innovative Education Days in Egypt**” from 16 to 23 November 2025 with support from Rossotrudnichestvo and the Russian Houses in Cairo and Alexandria.

The program included an exhibition, master classes, and intensive sessions on robotics and VR technologies in Cairo, Alexandria, and Aswan at the Arab Academy for Science, Technology and Maritime Transport.

<https://atvmedia.ru/news/education/72702>





Meeting at the Russian House in Mexico



Meeting with management



Meeting with the Director, Academic and Technical Secretaries of CIGA-UNAM

The main areas of work will be veterinary medicine, agronomy and GIS technologies, of particular interest to the Stavropol Territory is the experience of cultivating corn, virus-free material and vegetable crops.



Interview at the Self-Study Language Center (Mediateca)

## List of countries with which cooperation agreements have been concluded

### "North-South" countries:

- Azerbaijan Republic – 1
- Republic of Armenia – 2
- Republic of Belarus – 7
- Islamic Republic of Iran – 3
- Republic of Kazakhstan – 7
- Kyrgyz Republic – 1
- Republic of Tajikistan – 1
- People's Republic of China – 3
- Mexico – 1



Due to the changed geopolitical situation, Stavropol State Agrarian University has revised the vector of strategic cooperation, currently working with the countries of Central Asia, the Southeast and the Middle East.



### Negotiations are underway with universities in China and Iran

1. North-western University of Agriculture and Forestry, Shaanxi Province (China);
2. Nanjing Agricultural University (China);
3. Lihai Business Professional Institute (Anhui Province, China);
4. Liaoning Vocational College (Liaoning Province, China);
5. Khuzestan Agro-technological University (Iran)

## Partners



Kyrgyz National  
Agrarian University  
named after K.I. Scriabin



Karakalpak  
Institute of  
Agriculture and  
Agro-technologies



Northwestern  
University  
of Agriculture  
and Forestry  
of Shaanxi Province



Kazakh  
Agrotechnical  
University named  
after S. Seifullin

# Direction 2. Preparation of students for participation in global international student Olympiads, scientific and pedagogical workers



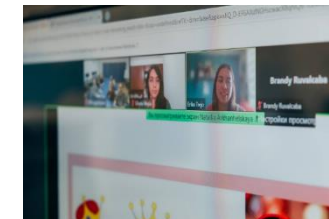
International Conference on Rural Innovation at the National Autonomous University of Mexico (UNAM)



XI international scientific and practical conference "Innovative aspects of service and tourism development"



Stavropol State University signed an agreement with the Academy of Education and Culture "Confucius"



The project "Cross Talk: Russia and Mexico"

Students of Stavropol State University and the National Autonomous University of Mexico (UNAM) have the opportunity to get acquainted with the traditions, culture, science, sports, creativity of Russia and Mexico, as well as communicate with each other.



XII International scientific and practical conference "April Scientific Readings named after Professor Viktor Arkadyevich Pipko"



IX International Scientific and Practical Conference "Actual problems and achievements of regional economic systems"



International Conference on Crop Breeding "Field Day — 2023"



The program is aimed at popularizing Russian as a foreign language, and also helps to integrate students from other countries into the Russian-speaking educational community.

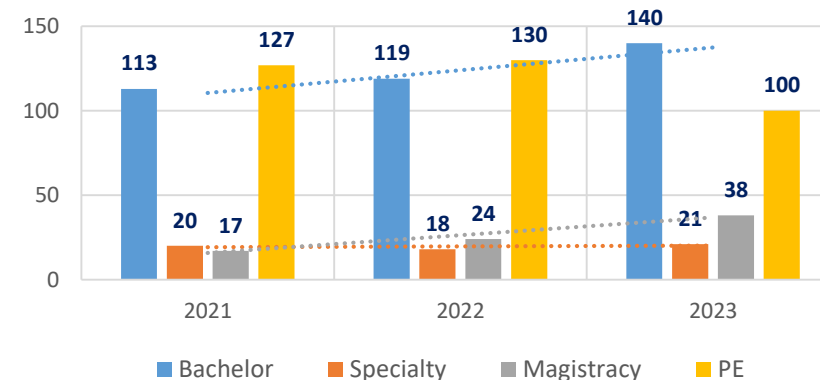


Figure 1 - Dynamics of the number of foreign students studying at SSAU

## Direction 3 and 4. Development of the University as an attractive educational center for foreign citizens

### participation of SSAU in international events



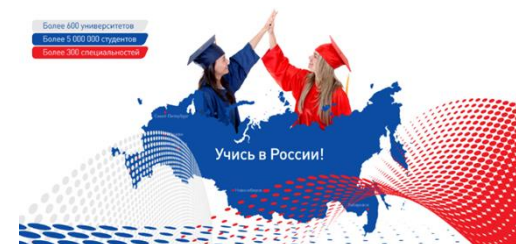
On 17–18 September 2025, Stavropol State Agrarian University took part in the “Hainan — Science, Education and Innovation” International Forum in Wenchang, strengthening cooperation with Chinese universities in engineering education and joint academic programs.

At the “Apricot 2025” International Horticultural Forum in Gelendzhik, Stavropol State Agrarian University presented the educational project “Integrated Protection of Fruit Crops” and announced enrollment for the program.



Stavropol State Agrarian University strengthened its position as an international university through educational, scientific, and mobility partnerships.

In 2025, the university enrolled 357 foreign students in total, including 307 from non-CIS countries and 50 from CIS countries.

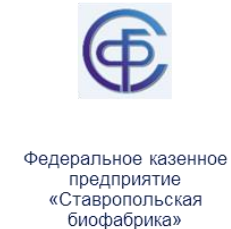
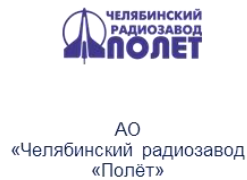
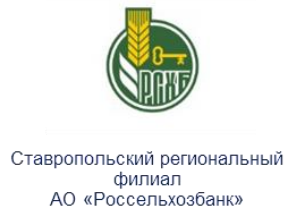
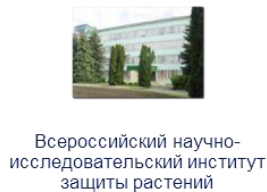


- Serbia
- Belarus
- Kazakhstan
- Kyrgyzstan
- Uzbekistan
- Vietnam
- Mexico
- Iran



## Consortium of performers of applied scientific research and experimental developments

 **Goal:** reliable scientific technological and personnel support of the agricultural sector of the economy and rural areas of the Russian Federation to achieve a synergetic effect in the joint activities of the consortium entities



## New partnerships and network programs in 2025



- 43.03.02 Tourism / Tourism and Hospitality Industry with MGIMO University)
- 38.03.01 Economics / World Agricultural Markets with MGIMO University



- Preparation of the personnel reserve for genomic plant breeding in the magistracy
- Designing a mirror laboratory



- 35.04.06 Agroengineering / Control Systems for Unmanned Aerial Vehicles with LLC "VINCO-AGRO"



- 38.04.02 Management / Digital Marketing and Sales Management with HSE University and St. Petersburg State University



# Development program consortium: Key results

## in science and innovation



Technologies of microclonal reproduction and biologization technologies of cultivation of fruit and berry crops



Дагестанский  
ГАУ

Technologies for improving the genetic potential of dairy cattle of Dagestan



ООО Опытное-  
Производственное  
хозяйство «Луч»

Technologies of biologization of agriculture based on the expansion of the genetic diversity of agricultural crops and the improvement of elements of agro-biotechnologies



КБГАУ

Development of an innovative breeding and genetic model for the creation of dairy herds of Holstein and black-and-white breeds of breeding cattle in the South of Russia



Дагестанский  
ГАУ



СК ФНАЦ

Applications for registration of protection documents for new varieties of winter soft wheat, triticale and amaranth



Горский ГАУ

Biological nitrogen fixation and optimization of environmental factors for the creation of highly productive agro-phytocenoses of traditional and non-traditional crops

## in education



КБГАУ

VEP programs for the development of skills and competencies of the digital economy, project management, technological entrepreneurship for the development of rural areas



Дагестанский  
ГАУ



Горский ГАУ

VEP programs :

- "Environmentally safe handling of animal by-products in the agro-ecosystem"
- Statistical analysis of data using modern information technologies"
- "Provision of services in the field of rural tourism"
- "Innovative approaches in agro-engineering practice with the use of digital technologies";
- "Organic agriculture and a biologized system of crop production"



РГАУ



Дагестанский  
ГАУ



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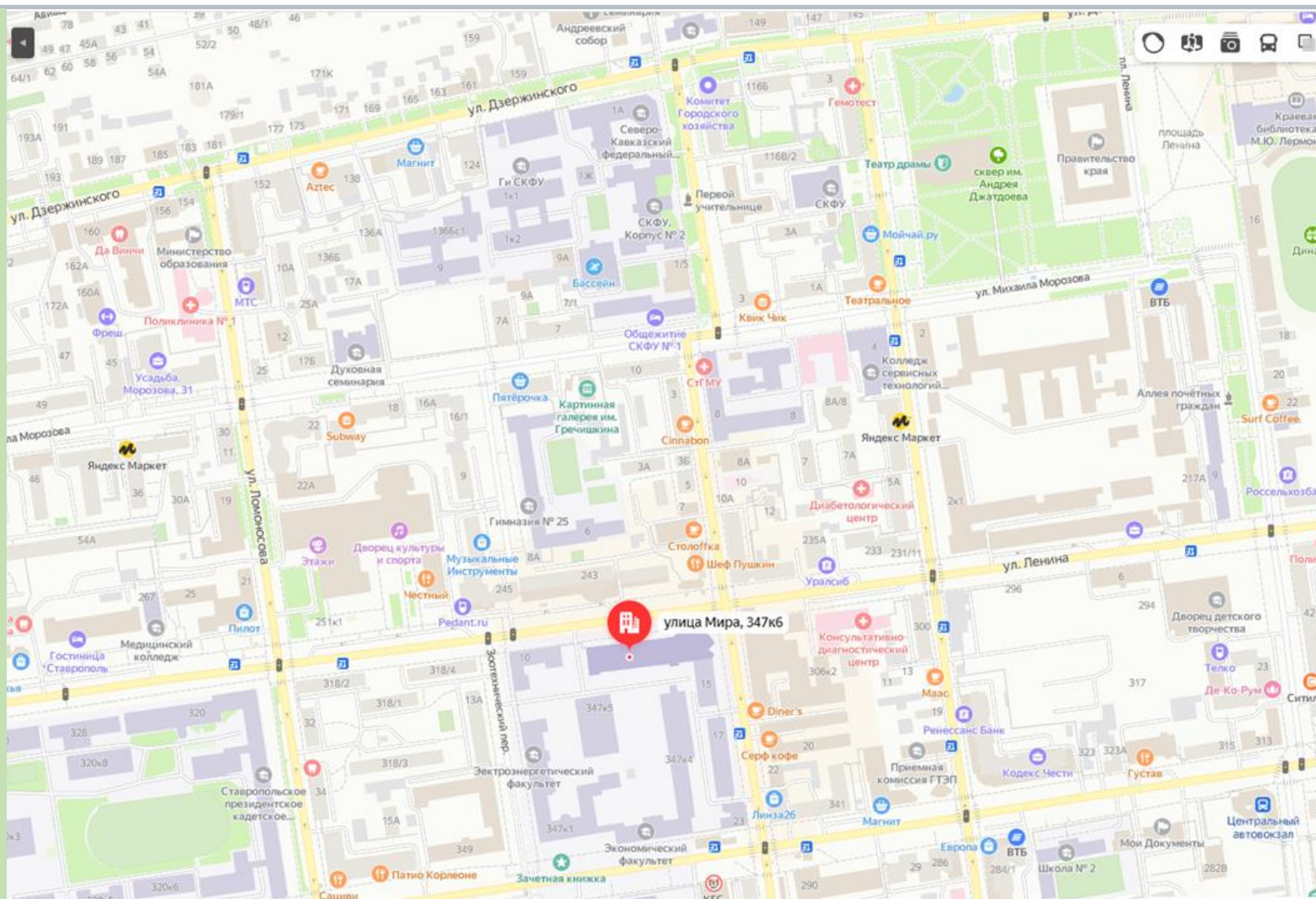
## QUESTIONS?

Contact Stavropol State  
Agrarian University

[report@stgau.ru](mailto:report@stgau.ru)

+7(8652)31-59-58

Stavropol,  
Zootekhnicheskyy Lane, 12



## STAVROPOL STATE AGRARIAN UNIVERSITY



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