

pril 12, 2023



SILVA Network Annual Conference Communication – a neglected topic in higher forestry education and further education

## "Sustainability of forest communication and contribution for sustainable forestry in Kazakhstan: on the case of Seifullin University"

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### The Republic of Kazakhstan



- Region Central Asia
- **#9 in the World** by territory: 2,724,900 km<sup>2</sup>
- The largest landlocked country in the World
- Multicultural country with more than 130 ethnic groups and nationalities
- **Apples** are reputedly to originate from Kazakhstan and there are still wild apple gardens in the country.
- Kazakhstan hosted the Expo 2017 'Future Energy'
- The highest point in Kazakhstan is Mt. Khan Tengri of the Tian Shan mountain range. The lowest point in Kazakhstan is the bottom of the Karagiye Depression at 433 feet (132 m) below sea level.

### Astana- the capital of Kazakhstan





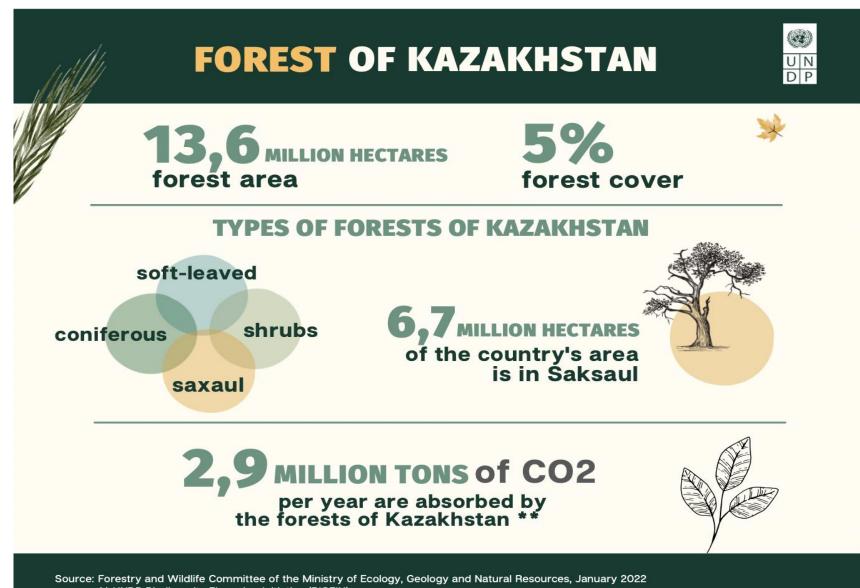






## **Agriculture in Kazakhstan (KZ) - Production**





#### REDUCTION OF THE "CARBON FOOTPRINT" IN KAZAKHSTAN

#### **AREA OF IDENTIFIED UNACCOUNTED FORESTS**



mountain forests of the East Kazakhstan region



forest in Pavlodar region



1990-2020 **6** MILLION TONS CO2 were absorbed by unaccounted forests THE GOAL IS TO REDUCE THE CARBON FOOTPRINT" BY

Source: UNDP-Bitfuty-Government of Kazakhstan project, 2020-2021

### **Higher** Education Institutions in Kazakhstan



According to the Statistics Committee of the Ministry of National Economy of the Republic of Kazakhstan, at the beginning of the 2022/2023 academic year, there are **128** higher education institutions in Kazakhstan: 11 universities are national, 1international, 1-autonomous educational organization (AEO), 29-state, 17-joint-stock, 55private and 14-non-civilians.

## Introduction to Seifullin University

- Founded in 1957: FIRST Higher Educational Institution in Astana, the capital of Kazakhstan
- Mission: generation, introduction, dissemination and application of advanced knowledge to improve the quality of life, increase labor productivity and competitiveness of the economy
- More than 60 thousand alumni: akims (governors and majors), deputies of various levels, heads of farms and enterprises, entrepreneurs
- Basic University for (1) Agricultural Engineering and (2) Food Processing

2012 - 2015: in **TOP-800** of the best universities in the World 2023-British rating agency Quacquarelli Symonds- 4 stars

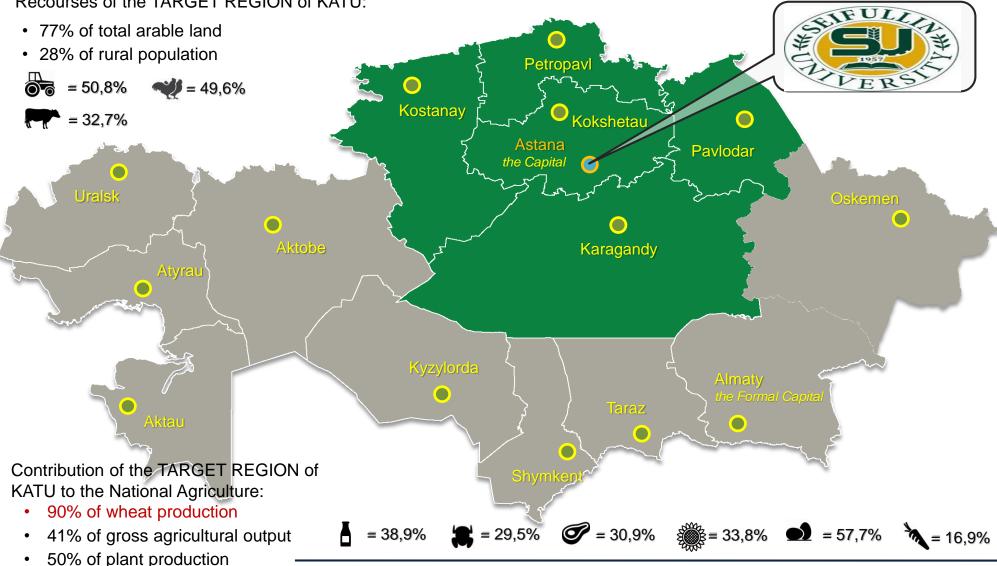
- Teaching staff: 849 Faculty members, including:
  (1) 83 Doctors of Sciences, (2) 60 PhDs, and (3) 366 Candidates of Sciences
- The Largest Agricultural University in Kazakhstan: 5 Campuses, 8 Faculties and 85 programs:
  - Undergraduate
    - 36 programs, 10 282 students + 879 distance learning
  - Master's degree
- 31 programs, 937 Master students
- PhD degree
- 23 programs, 112 PhD students
- 63 programs (70%) in the TOP-3 of the National Ranking-2019, 19 are #1\*\*





## The Target Region of Seifullin University





31% of animal production ٠

## Academic Profile of KATU



#### Faculties\* with Degrees:

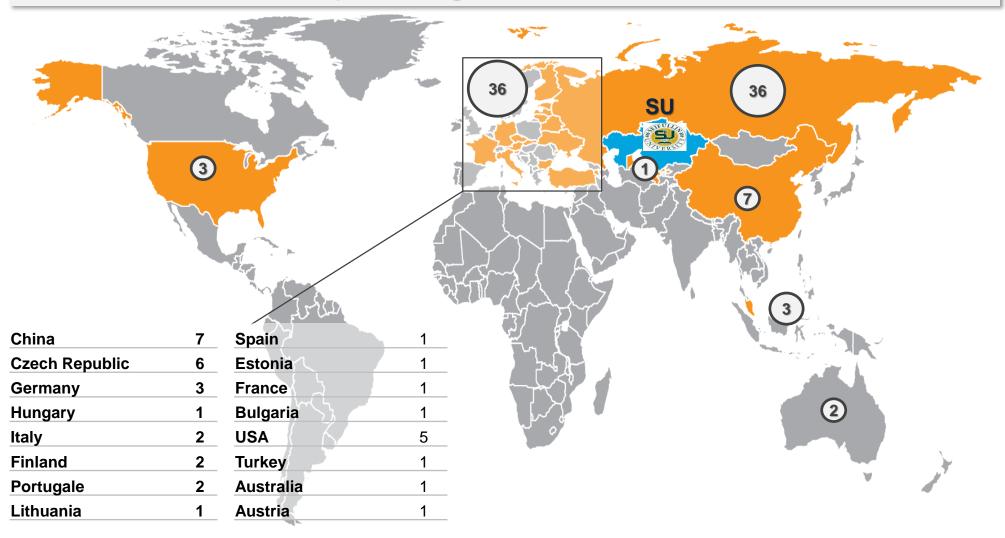
- Faculty of Agronomy #1 in Kazakhstan (KZ)
- Faculty of Forestry, Wildlife and Environment -#2 in KZ
- Faculty of Mechanical Engineering #1 in Agricultural Engineering, #3 in Food Science in KZ
- Faculty of Land Using, Architecture and Design #3 in KZ
- Faculty of Veterinary and Animal Science #2 in KZ
- Faculty of Energy & Power Engineering
- Faculty of Economics #6 in KZ
- Faculty of Computer Science and Vocational Education training of teachers for agricultural colleges, #9 in Computer Science in KZ

#### **Non-Degree Faculties:**

- Humanitarian Faculty (History, Philosophy, Language)
- Faculty of Arts #1 in Astana

### **INTERNATIONAL COOPERATION**

#### Cooperation with 78 partner-organizations from more than 20 countries



### "Extension – KATU"

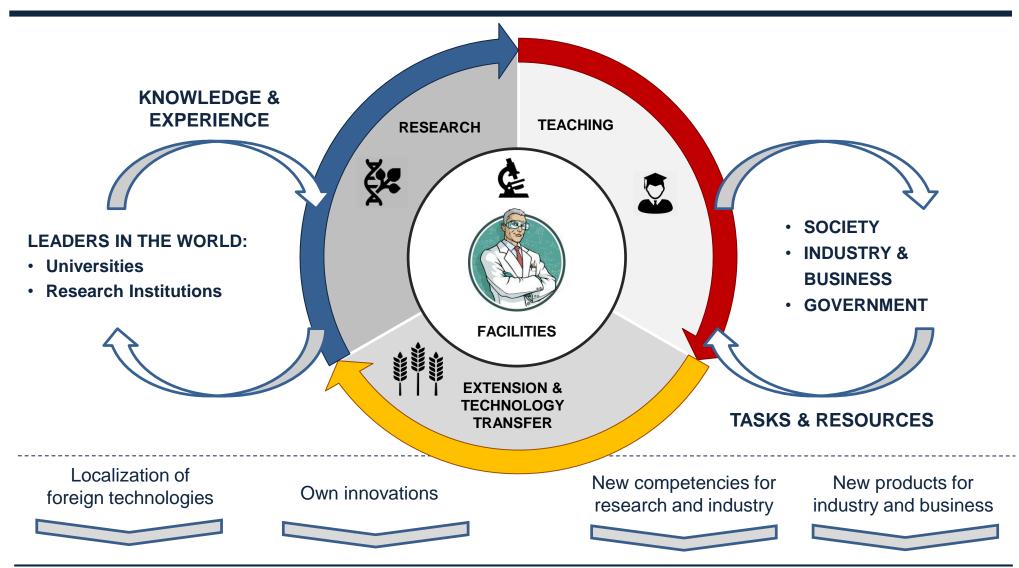


#### Precision Agriculture Program (2018, designed with the assistance of UC Davis Faculty members)

• 9 pilot farms in 3 regions, 9 seminars, and 411 trainees



### **New Strategy "KATU-2025"\*: Transformation to the "Western** Type" Research University in the Field of Agriculture



\* Was approved by the KATU's Board of Directors on December 13, 2015

### Sustainability of forest communication

- Ministry of Agriculture of the Republic of Kazakhstan
- Ministry of Science and Higher Education of the Republic of Kazakhstan
- Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan Forestry and Wildlife Committee

The area of state forest owners subordinate to the Committee is **7450.9 thousand ha**, of which 7335.9 thousand ha are **specially protected natural areas** with the status of a legal entity, which include:

- -10 state nature reserves;
- -14 state national natural parks;
- 7 state nature reserves

The Committee is subordinate to: State Enterprise "Republican Forest Selection and Seed Center", Sandyktau Training and Production Forestry and Republican State Enterprise on the REM "Zhasyl Aimak".

### **Educational programs in the field of forestry**

#### Forest Resources and Forestry Department:

Landscaping and Gardening, Protective Afforestation- **BSc**;

Aesthetic forestry- MSc;

Sustainable Management of Forest Resources – PhD

#### **Ecology Department:**

Natural Resource Management – BSc

Agroecology- BSc

Sustainable Management of Natural Resources – MSc

#### Hunting and fishing Department:

Hunting - BSc

Aquaculture and water bioresources- BSc

Effective use of natural biological resources- MSc

Intensive fishing- MSc

Wild nature- PhD

## **Communication with stakeholders**

- Development of educational programs (Protective Afforestation with AgroParistech)
- Students' production and studying internship at parks, reserves, botanical gardens, large enterprises
- Delivering lectures
- Members of state exams
- Topics of diploma papers are discussed
- Committee invites scientists for giving recommendations (forest fire in Kostanay region-2022), for developing professional standards
- Round tables with stakeholders (International Summer Schools since 2014)
- Joint publications
- Participants of international EU Erasmus+ projects SUSDEV "Lifelong Learning for Sustainable development"; UnWaste "Development of the circular economy in partner countries through the development and implementation of the master's program Waste Management"

## **Communication with stakeholders**

- Dual education
- Employment of graduates (Alumni Fair)
- Advanced training of the specialists of forestry, ecology and wildlife sectors at the Center of Competence "Green Skills"
- Participation at the meetings of the Professional English Speaking Club "Green future"
- Practice-oriented orientation of the educational process and the expansion of practice bases











# **Thanks for Your Attention!**



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