



THE MINISTRY FOR  
SCIENCE AND HIGHER  
EDUCATION OF THE  
RUSSIAN FEDERATION



DON  
STATE  
TECHNICAL  
UNIVERSITY

# DON STATE TECHNICAL UNIVERSITY

[www.donstu.ru](http://www.donstu.ru)



# ROSTOV-ON-DON

## SOUTHERN BUSINESS AND INDUSTRIAL CAPITAL



**1 352 000**

population

**348 KM<sup>2</sup>**

area

**90 000+**

enterprises and companies

**TOP-10 AWARDEE**

“investment attractive city”

[www.rostov-gorod.ru](http://www.rostov-gorod.ru)

### STRATEGIC CLUSTERS

- machine engineering and equipment
- food industry
- aircraft engineering
- chemical industry
- light industry
- metallurgy



# DON STATE TECHNICAL UNIVERSITY

**1930**



North-Caucasus Institute  
of Agricultural Machinery  
Building

**1992**



Don  
State  
Technical  
University

**2016**



The Flagship University



**5 000+**

staff

**46 000+**

students



**3 000+**

international  
students



**5**

branches



**134**

departments

**24**

faculties

**341**

study programs

# DSTU STRUCTURE



5

fields of study

ARTS & HUMANITIES

LIFE SCIENCES &  
BIO MEDICINE

NATURAL SCIENCES

SOCIAL SCIENCES

ENGINEERING & IT



24

faculties

134

departments

AGRIBUSINESS

AIRCRAFT  
ENGINEERING

ARCHITECTURE, ART  
AND DESIGN SCHOOL

AUTOMATION,  
MECHATRONICS AND  
CONTROL

CONSTRUCTION AND  
ENGINEERING

INNOVATIVE BUSINESS  
AND MANAGEMENT

INTERNATIONAL

IT AND ECONOMIC  
SYSTEMS

PSYCHOLOGY,  
PEDAGOGY AND  
DEFECTOLOGY

SERVICE AND TOURISM

MECHANICAL  
ENGINEERING

MEDIA  
COMMUNICATIONS  
AND MULTIMEDIA  
TECHNOLOGIES

OIL AND GAS INDUSTRY

PHYSICAL TRAINING  
AND SPORTS

ROAD TRANSPORT  
ENGINEERING

SOCIAL AND HUMAN  
SCIENCES

TOOL ENGINEERING  
AND TECHNICAL  
REGULATION

TRANSPORT, SERVICE  
AND MAINTENANCE

CIVIL AND INDUSTRIAL  
ENGINEERING

LIFE SAFETY AND  
ENVIRONMENTAL  
ENGINEERING

IT-SYSTEMS AND  
TECHNOLOGIES

MACHINERY ENGINEERING AND EQUIPMENT

LAW

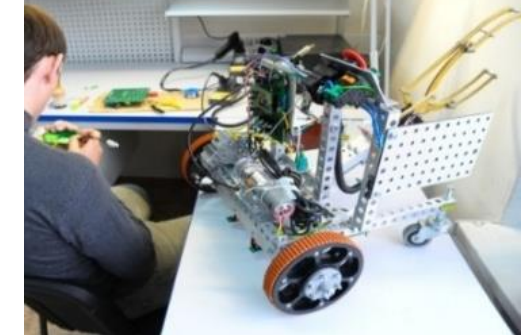
# STUDY PROGRAMS

<b>PHD (3 YEARS)</b>	<b>ENGINEERING &amp; IT</b>	<b>NATURAL SCIENCES</b>	<b>SOCIAL SCIENCE</b>	<b>ARTS &amp; HUMANITIES</b>	
<b>MASTER (2 YEARS)</b>	<b>ENGINEERING &amp; IT</b>	<b>ARTS &amp; HUMANITIES</b>	<b>NATURAL SCIENCES</b>	<b>SOCIAL SCIENCE</b>	<b>LIFE SCIENCES &amp; BIO MEDICINE</b>
<b>BACHELOR (4 YEARS)</b>					
<b>SECONDARY EDUCATION</b>	<b>TECHNICAL LYCEUM</b>	<b>GYMNASIUM</b>	<b>COLLEGES</b>	<b>EMPEROR NIKOLAY II DON CADET SCHOOL</b>	



**341**  
study programs

## LIFELONG AND LIFEWIDE LEARNING





# REALIZATION OF THE LEARNING STRATEGY DURING THE WHOLE LIFE

PRIMARY  
EDUCATION

SECONDARY  
EDUCATION

PRE-UNIVERSITY  
EDUCATION

HIGHER  
EDUCATION

POSTGRADUATE  
EDUCATION

## CHILDREN'S UNIVERSITY



- theatre studio
- art studio
- basics of robotics with programming elements
- mental arithmetic
- oil painting
- learning by playing
- psychological module

## «ТОЧКА КИПЕНИЯ»



- Agro NTI
- NTI University
- EnergyNet
- FashionNet
- EduNet
- Mentorship
- digital economy
- neurotechnology
- gastronomic tourism
- Future professions
- Business initiative support program



## TECHNOPARK «QUANTORIUM» FOR CHILDREN

- Aeroquantum
- Bioquantum
- IT-quantum
- Roboquantum
- Energyquantum
- promdesign
- Hi-tech cluster



## BUSINESS INCUBATOR «GARAGE»



- One-stop-shop principle
- Access to laboratories
- Assistance in project promotion
- Modern and convenient workspace
- Effective exchange of ideas and experience
- Perfect environment for business



# NATIONAL AND INTERNATIONAL PARTNERS

FOR SUSTAINABLE INSTITUTIONAL AND REGIONAL DEVELOPMENT

РОСТСЕЛЬМАШ



# CORPORATE DEPARTMENTS



# 19

corporate  
departments



Multimedia communications  
and technologies



Steel and its alloys production technologies



Industrial metrology



Aircraft engineering



Agribusiness products processing  
technologies and equipment



Drive systems



Power plant engineering



Hardware and software systems



Design and engineering support  
of drive systems production



Social pedagogy



Aircraft systems for special operations  
manufacturing technology



Technical means of fish farming



Transport machinery



Engineering management in construction



Agricultural machinery engineering  
and production



Non-ferrous metal processing



Orthodox culture and theology



Transport systems and logistics



Automated control systems

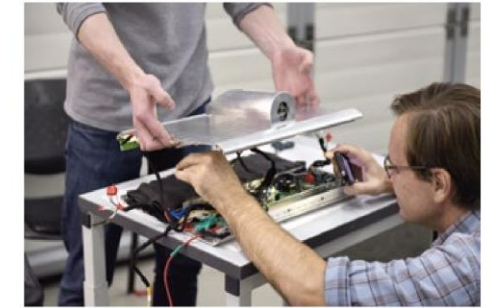
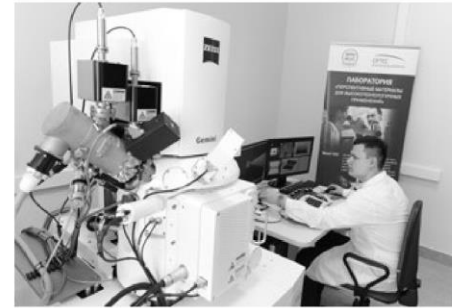


# DSTU FACILITIES

## RDI AND SPIN-OFF POOL



- 4 research and education centers
- 30 labs incl. co-departmental (Camozzi, Mitsubishi, Alcoa, Festo, Kovosvit MAS, etc.)
- Rosatom Nuclear Energy Centre
- Nanotechnologies Education Park
- South Russia Engineering Centre
- Robotics Resource Centre
- Technopark
- Mediapark
- Agrotechnopark
- 10 spin-off companies



# DSTU FACILITIES



**30** faculty buildings

**10** students residence houses

**6** branches

## CONGRESS HALL

- Concert hall – **1500 seating capacity**
- Multimedia rooms
- Press conference venue
- **Multimedia** equipment
- **Multi-language** broadcasting
- Satellite TV link-up

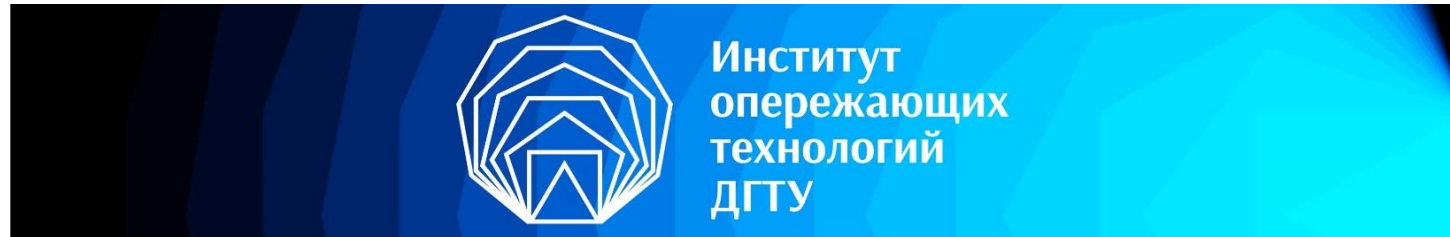


## MEDIAPARK

- **Media Lab**  
(Radio and TV broadcasting)
- Production center
- Design studio
- TV school
- Cartoon studio



# INSTITUTE OF ADVANCED TECHNOLOGIES "SCHOOL X"



individual  
educational path



new educational  
space



High demand for  
graduates



International  
networking



Project  
work



Engineers  
for future



## BENEFITS:

- In-depth study of foreign languages
- Additional scholarship
- New dormitories
- Realization of projects with real business partners
- Employment in TOP Russian companies



# CAMPUS 4.0

## SCIENTIFIC-EDUCATIONAL COMPLEX



## NEW DORMITORIES



**1200**  
PLACES



**23**  
FLOORS



# CAMPUS 4.0: TECHNOPARK

**15,8 ha**

Total area

**1 140 m<sup>2</sup>**

Metalworking shop

**750 m<sup>2</sup>**

Foundry

**12 990 m<sup>2</sup>**

Offices



**₽ 8 billion**

total cost

**4 years**

implementation  
period

**10 years**

credit period

## KEY PARTNERS



**СБЕРБАНК**





# MAIN SCIENCE AREAS

## RISK-ORIENTED TRANSFORMATION OF THE AG-INDUSTRIAL COMPLEX

- digitalization of agricultural land monitoring
- precision farming
- the Internet of things, cyber-physical systems and cloud services
- intelligent and self-driving means of agricultural mechanization

## RATIONAL KAP PRODUCTION CYCLE

- biomanipulations, biocontrol, biologization of agriculture
- Green economy and sustainable development
- Deep processing of agricultural products
- Technologies and equipment for feed production

## BIOLOGICAL AND MEDICAL ENGINEERING

- organic, individualized and functional food products
- nano- and biotechnologies
- additive technologies in medicine
- Prospective technologies and devices in medicine

## DIGITAL TRANSFORMATION OF THE INDUSTRIAL COMPLEX

- the Internet of things, cyber-physical systems and cloud services
- equipment diagnostics and non-destructive testing
- Additive technologies and generative design
- Industrial robotic systems

## RESOURCE-SAVING ENERGY

- alternative energy
- deep processing of hydrocarbon raw materials
- new energy source
- smart energy networks
- innovative methods of energy storage and recycling



# CENTERS OF EXCELLENCE



## **CENTRE OF EXCELLENCE «ADVANCED ROBOTIC MACHINES AND COMPLEXES »**

Machines for balancing flexible rotors development, high technology multi camera systems and unmanned aircraft for threat detection



## **CENTRE OF EXCELLENCE «ADVANCED MATERIALS»**

Multi-layer composite materials for aircraft industry and medicine



## **RESEARCH LABORATORY «AGRO- BIOTECHNOLOGICAL CENTER»**

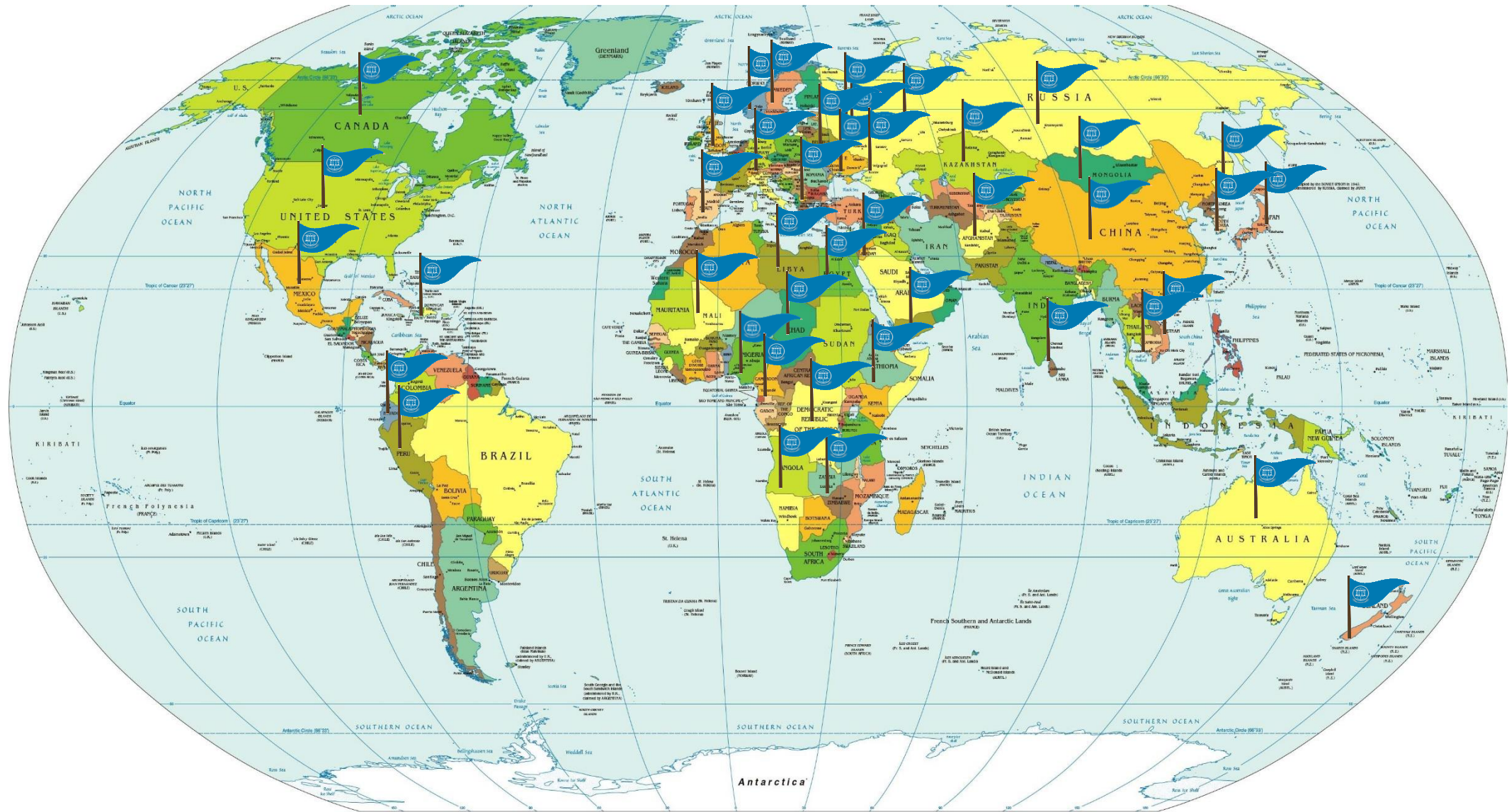
Veterinary probiotic drugs for targeted animal health modeling



## **Professor Mr. Mikhail Chikindas**

**Head of research  
laboratory «AGRO-  
BIOTECHNOLOGICAL CENTER»,  
Scientist, Professor of Rutgers  
University  
(USA, New Jersey)**

# ALUMNI



# DSTU IN UNIVERSITY RANKINGS



Times Higher Education  
University Impact  
Ranking

**401 - 600**



Quacquarelli Symonds:  
Emerging Europe and  
Central Asia

**250-300**



Round University  
Ranking

**751**



«Russian Universities Invention  
Activities Index»

**41 - 44**

# Forbes

TOP-100 Russian Universities  
according to Forbes - 2020

**50**



100 best universities in  
Russia

**78**



# PARTNER COUNTRIES

## EUROPE

-  Spain
-  Germany
-  Georgia
-  Belgium
-  Belarus
-  Denmark
-  Estonia
-  Finland
-  France
-  Italy
-  Poland
-  Portugal
-  United Kingdom
-  Czech Republic
-  Ukraine

## ASIA

-  Armenia
-  Azerbaijan
-  China
-  India
-  Indonesia
-  Iran
-  Israel
-  Japan
-  Kazakhstan
-  Kyrgyzstan
-  Moldova
-  Palestine
-  Sri-Lanka
-  Tajikistan
-  Turkey
-  Uzbekistan
-  Vietnam
-  Nepal

## AFRICA

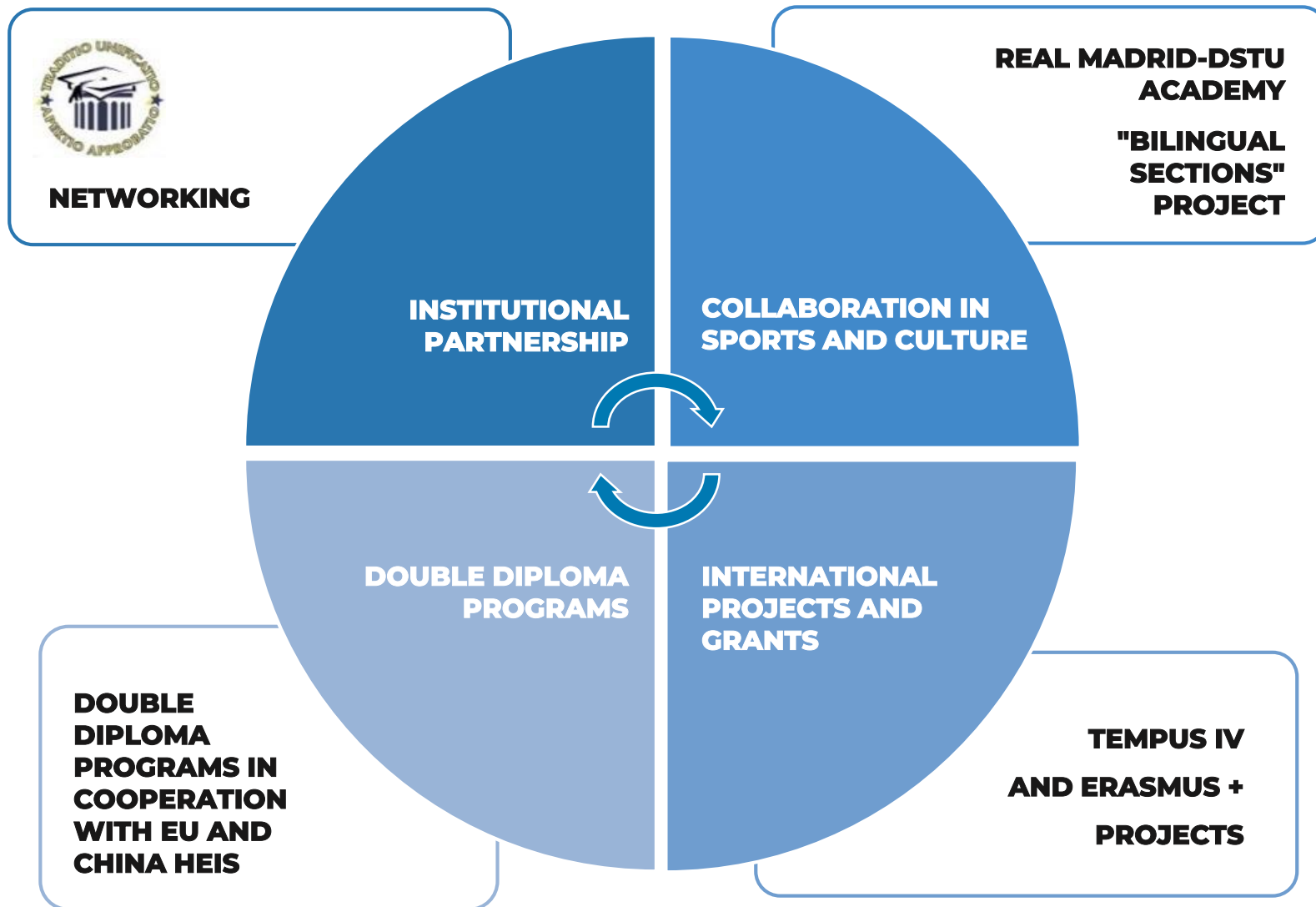
-  Algeria
-  Egypt
-  Ghana
-  Kenya
-  Namibia

## AMERICA

-  USA
-  Chile
-  Brazil
-  Venezuela

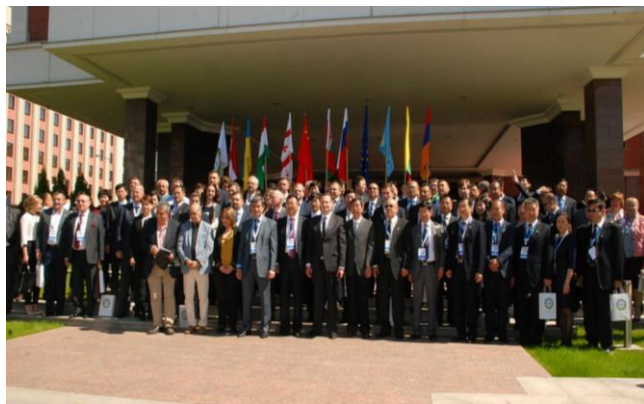
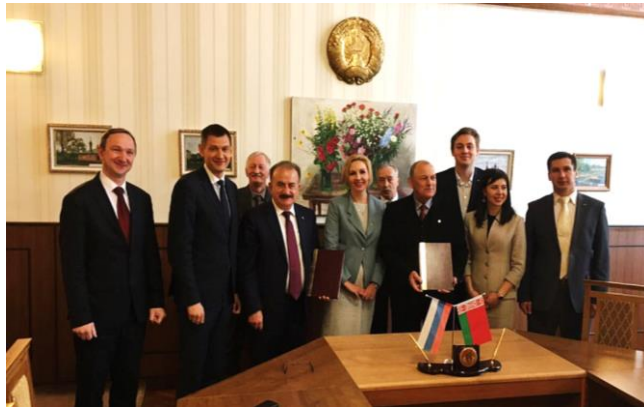


# INTERNATIONAL COOPERATION



# DSTU – BRAND PROMOTION

## OUTREACH INTERNATIONAL EVENTS



## IN-HOUSE INTERNATIONAL EVENTS



## OFFICIAL VISITS AND DELEGATIONS





# INSTITUTIONAL NETWORKING



**58**

Russian  
HEIs

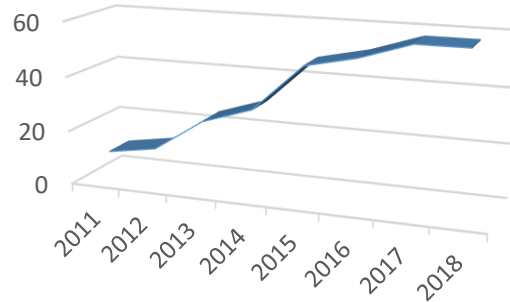
**23**

international  
partners

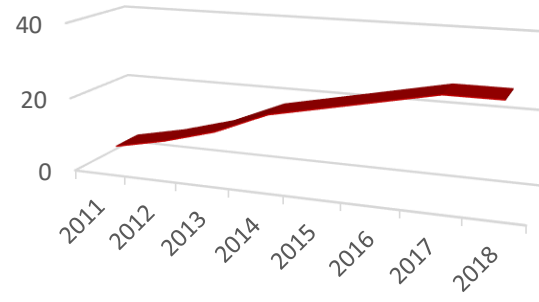
## ASSOCIATED PARTNERS:

- ASIIN (Germany)
- NQA (UK)
- EURASHE
- The Holy See
- Flemish community

**RUSSIAN FEDERATION**



**FOREIGN PARTNERS**



# INSTITUTIONAL NETWORKING

## 17 INTERNATIONAL PROJECTS Tempus IV, Erasmus+



# TEMPUS Erasmus+

### EDUCATION

Social work

Engineering education

Material science

Work-based Learning

Ecology  
education

HE and VET alliance  
establishment

Discover Europe

Energy Saving

Jean Monnet Chair

Tuning Russia

### RECOGNITION

Validation of non-formal  
and informal learning

Independent quality  
assurance of programs

Electronic quality  
assessment of programs

Qualification framework  
for "tourism"

### REGIONAL DEVELOPMENT

Employability  
centers

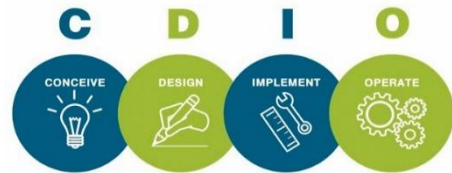
University-to-Business  
partnership

Spin-off companies  
network



# INSTITUTIONAL NETWORKING

## THE CDIO INITIATIVE



(Conceive, Design, Implement and Operate)  
An innovative educational framework for producing the next generation of engineers

### DSTU

coordinator of CDIO standards and principles dissemination

### THE MAIN GOAL:

bringing authentic engineering challenges to inspire next generation of engineers



**154**  
HEIs

**42**  
countries



SPACE European Network for Business Studies and Languages  
September 2017



Silk Road High-Tech Parks Alliance  
June 2016





# “SILK ROAD HIGH-TECH PARKS ALLIANCE”



**5 July 2016**

Yantai

**SILK ROAD HIGH-TECH  
PARKS ALLIANCE**

Pact Signing  
(SRSPA Pact)



# DON UNIVERSITY SJU-DSTU



**18.06.2019**

Every year:

**100** students  
per program

**JOINT EDUCATIONAL  
PROGRAMS**

**CONSTRUCTION OF  
BRIDGES AND TUNNELS**

**ORGANIZATION OF  
TRANSPORTATIONS  
AND TRANSPORT  
MANAGEMENT**

**FINANCIAL  
MANAGEMENT  
(is being planned)**

## RUSSIAN AS A FOREIGN LANGUAGE TEXTBOOK FOR CHINESE STUDENTS



  
ZRENIE 2.0

GET IT ON  
 Google Play



Download on the  
 App Store



# PROGRAMS TAUGHT IN FOREIGN LANGUAGES

## POST GRADUATE SPECIALIZED COURSE (5 YEARS)

- Veterinary Medicine



## MASTER'S

- Smart Systems Based on BlockChain Technology
- Media and Communications
- Economics
- Civil Engineering
- Urban Planning





# INSTITUTIONAL NETWORKING

## «BILINGUAL SECTIONS» PROJECT

**DON STATE  
TECHNICAL  
UNIVERSITY**  
**(RUSSIA)**

**MINISTRY FOR  
EDUCATION, CULTURE  
AND SPORT**  
**(SPAIN)**

**RUSSIAN CERIFICATE OF  
SECONDARY EDUCATION**

**DIPLOMA DEL BACHILLERATO**

- coordination and support
- dissemination of Spanish language
- special courses for last year students
- introductory courses
- in-depth courses

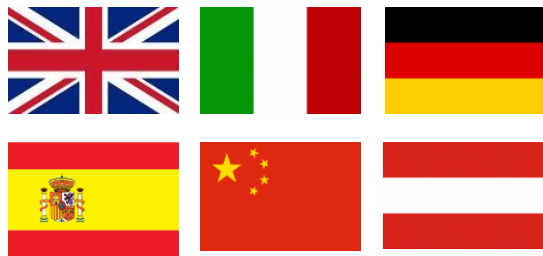


# DSTU- ACADEMIC MOBILITY

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- AM programs monitoring and administration
- outreach info sessions
- face-to-face sessions
- database of AM applicants

## LANGUAGE ASSISTANTS – 35



## VISITING PROFESSORS - 42

- Georgius Agricola - Czech Republic
- Monodukuri - Kindai University, Japan
- Erasmus+ - Madrid, Spain
- Stipendium Hungaricum - Hungary
- Mevlana - Turkey
- DAAD - Germany
- Fulbright - the USA
- Cargill - Europe-Asia
- TU Wien - Austria
- Sorbonne-Identite, Campus France - France
- Griffith College Dublin - Ireland
- Glasgow Kelvin College ,  
University of the West of Scotland - GB
- Shenyang University, Harbin University,  
Shandong Jiaotong University- China

# SUMMER SCHOOLS

## INTERNATIONAL STUDENTS' MEDIA EXPEDITIONS «ROUTES OF THE QUITE DON»



## SUMMER SCHOOLS OF LANGUAGE+ MODEL

### «RENEWABLE ENERGY SOURCES AND GREEN TECHNOLOGIES»



### «TRANSPORTATION ORGANIZATION AND AUTO TRANSPORT MANAGEMENT»



### «URBAN PLANNING AND RECONSTRUCTION: FIFA WORLD CUP»





# INTERNATIONALIZATION OF THE EDUCATIONAL PROCESS

10

Educational programs in English

12

joint educational programs

29

Disciplines and modules in English

6

Summer schools



34

Visiting professors

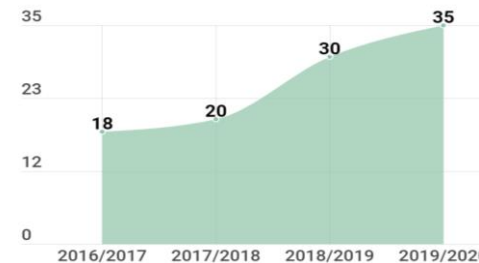
28

Language assistants

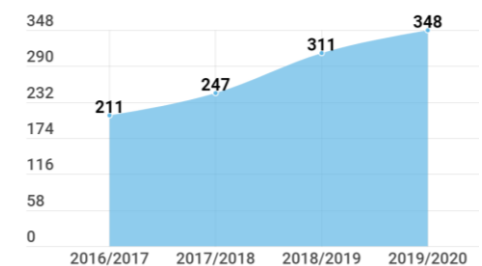


## ACADEMIC MOBILITY

Number of programs



Number of participants



- MONODUKURI
- FULBRIGHT
- MEVLANA

- CARGILL
- DAAD
- GEORGIUS AGRICOLA

- STIPENDIUM HUNGARICUM
- ERASMUS+ KAI

# INTERNATIONAL EDUCATION

## PREPARATORY PROGRAMS / INTERNATIONAL FACULTY:

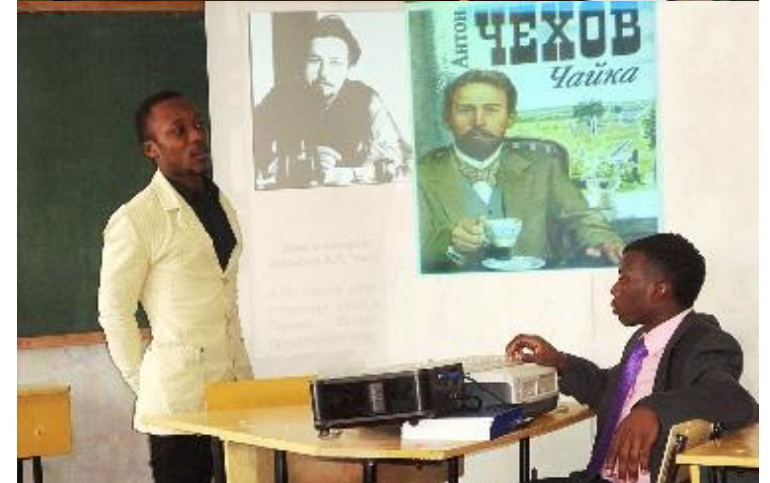


## COURSES

- RFL courses
- International Summer schools
- Russian for business and entrepreneurship
- Module-based Russian language study programs

## TORFL

- National certificate/6 levels



# EUROPEAN DIPLOMA SUPPLEMENT

Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.).

DS is issued by the Center of Evaluation of Educational Documents of Don State Technical University and enables our graduates to continue their education or start career in any of European Higher Education Area countries.



A sample Diploma Supplement form from the University of Reading. The form is titled 'DIPLOMA SUPPLEMENT' and includes the University of Reading logo. It contains the following sections:

- 1. STUDENT INFORMATION**
  - 1.1 Family name(s)
  - 1.2 First name(s)
  - 1.3 Date of birth (day/month/year)
  - 1.4 Student identifier (University student record number and Higher Education Statistics Agency number)
- 2. PROGRAMME INFORMATION**
  - 2.1 Programme studied and where applied (e.g., Master of Arts)
  - 2.2 Main focus of study for the qualification (e.g., Humanities Leadership and Practice)
  - 2.3 Name and status of awarding institution (The University of Reading)
  - 2.4 Name and status of institution administering studies (if different from 2.3)
  - 2.5 Language of instruction/administration (English)
- 3. INFORMATION ON THE LEVEL OF QUALIFICATION**
  - 3.1 Programme Level (see section 2 below) (Postgraduate Masters)
  - 3.2 Length of programme (8 years)
  - 3.3 Entry requirements (Normally an appropriate Bachelors degree and, where relevant, acceptable practical experience, as detailed in the programme specification at www.reading.ac.uk/programme)
- 4. PROGRAMME OUTCOMES AND RESULTS GAINED**
  - 4.1 Mode of study (Part-time)
  - 4.2 Programme requirements (For programme information on aims and learning outcomes see the programme specification at www.reading.ac.uk/programme)

Page 1 of 8 Date of printing 29/10/2012 (This field without enclosed University seal)



# SOCIAL LIFE

## STUDENT HEALTH AND SPORTS COMPLEX «RADUGA»

**4** residences **1500** person holding capacity

**5** sports fields **700** seat conference room



## DSTU-REALMADRID ACADEMY

### Project overview

- promotion of civil responsibility, tolerance and social activity
- Real Madrid methodical support, coach and manager training
- regional sports infrastructure development



# STUDENT SPORT

# 36

student sports  
teams

## TEAMS:

football  
track-and-field athletics  
basketball  
handball  
cheerleading for  
both kids and adults, etc.





# DSTU FACILITIES

## CONVENTION AND EXHIBITION CENTER “DON COSSACK GUARD”



**400+**  
exhibition  
showpieces

**27**  
years spent on  
collection creation

**30**  
complete set of  
historical uniforms  
and equipment

**20 000**  
photos in the center  
archives



# MAPPING FURTHER COOPERATION

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## CONTACTS

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**International Partnership  
Office**

**+7 (863) 2-738-785**

**[dstu\\_oms@mail.ru](mailto:dstu_oms@mail.ru)**

**[cipp@donstu.ru](mailto:cipp@donstu.ru)**

- Russian language module study programs for all age groups and purposes
- R&D and spin-off companies for implementation of joint research
- promotion platform for regional academic and business collaboration
- creation of joint educational programs based on the "university-business" model, including upgrade-courses and MBA/MPA programs
- technical expertise, consulting, project management
- academic mobility programs
- MICE-services: organization and holding of intercultural events, forums, workshops, show-rooms and others



THE MINISTRY FOR  
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DON  
STATE  
TECHNICAL  
UNIVERSITY

**THANK YOU FOR YOUR  
ATTENTION!**

[www.donstu.ru](http://www.donstu.ru)



# CONTACTS

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