

# Education & Research: innovation potential of Belarus and Belarusian State University

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# HIGHER EDUCATION in the REPUBLIC OF BELARUS



### Higher education institutions in Belarus

**51** HEIs: **42** - State, **9** - Private



34 Universities:

9 Academies;

8 Institutes

#### **Affiliation:**

Ministry of education - 21
Ministry of Agriculture - 4
Ministry of Health - 4
Ministry of Culture - 3
Other - 10

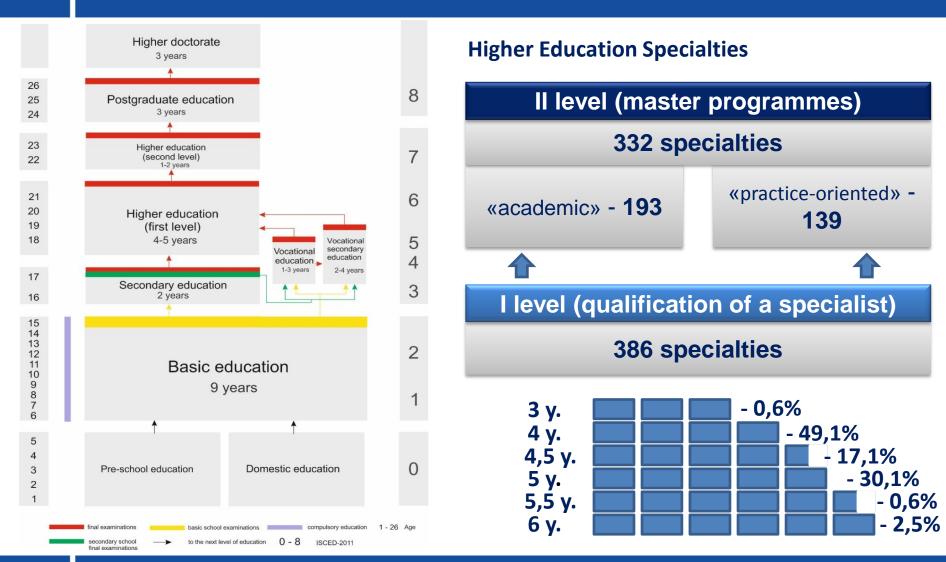
Russian Education Institutions (branch in Minsk):

- Russian State Social University (RSSU);
- Plekhanov Russian University of Economics (PRUE)





### System of higher education in the Republic of Belarus





### Educational programmes of higher education



I level of higher education – conducts training of specialists with basic and special knowledge and skills certified as specialist with higher education.



Educational programme of the I level of higher education assures obtaining specialist qualification with higher education;



Educational programme of the I level of higher education integrated with post-secondary educational program.



**Il level of higher education (Master's programme)** – provides indepth training, develops knowledge and academic methodology and research skills, assures obtaining a Master's degree.



Educational programme of the II level of higher education forms knowledge and academic methodology and research skills;



Educational programme of the II level of higher education with in-depth specialist training.

There are 13 programmes taught in English.



#### First level of Higher Education (equivalent of Bachelor's programme)



ISCED- 6 Level «Bachelor`s degree programme»



Course duration: 4-4,5-5 years, ECTS - 240-300



Medium of instruction: Russian / Belarusian / English



Free education for citizens:











More than 380 educational programmes:



Economics. Management

Ecological

Architecture

Pedagogics

Humanities

sciences

sciences

Technics and Technology Construction

Forestry

Hospitality



#### **Second level of Higher Education** (Master's degree programme)



ISCED-7 Level «Master`s degree programme»



Course duration: 1-1,5-2 years, ECTS - 60-120



Medium of instruction: Russian / Belarusian / English



Free education for citizens:











More than 300 educational programmes:



Economics.

Management

Ecological





Pedagogics

Humanities

Natural sciences sciences

Technics and

Architecture Technology Construction

Forestry

Medical Care

Hospitality



### Postgraduate education (postgraduate studies)

### Number of theses defended by the staff of institutions of the Ministry of Education of the Republic of Belarus:

	2011	2012	2013	2014	2015	2016
Candidate's Dissertation	214	190	202	173	251	164
(% of the total number of defenses in the country)	41,2	38,5	39,5	35,2	48,9	36,4
Doctoral theses	17	16	17	14	21	20
(% of the total number of defenses in the country)	36,2	34,8	43,6	31,1	43,8	45,5

### The number of students in postgraduate and doctoral studies of institutions of the Ministry of Education:

	2011	2012	2013	2014	2015	2016
postgraduate studies, total.	3226	3147	2963	2736	2749	2802
doctoral studies, total.	80	81	83	107	142	180



### The main directions of development of higher education



Improving the quality of training specialists. Increasing the effectiveness of practice-oriented training and deepening ties with employers.



Enhancing the competitiveness of higher education in the global educational space.



Improving of the planning system and optimization of the structure of training of specialists with higher education.



Optimization of the higher education system and improving the management of the system of higher education.



Improving of the material, technical, educational and laboratory base of higher education institutions.



### BELARUSIAN The scientific activity of universities: STATE UNIVERSITY the main directions of research



www.icm.by Intercollegiate marketing center research developments



www.imu.metolit.by Information and marketing center of the Ministry of education of the Republic of Belarus

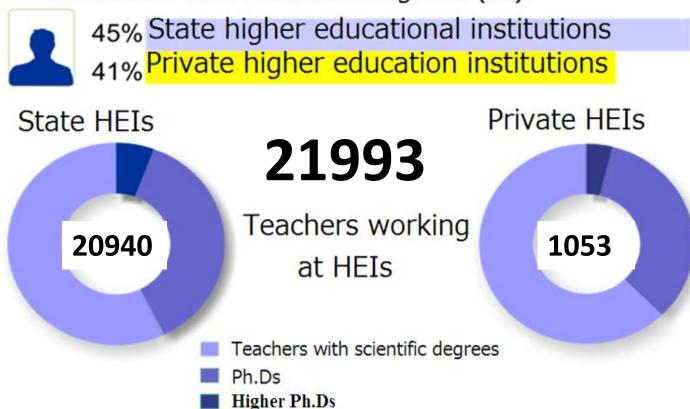
- ✓Information technology and computer technology;
- √ Power engineering and metallurgy;
- ✓ Medicine:
- ✓ Mechanics, electrical engineering;
- √ Construction, architecture;
- ✓ Maths, physics;
- ✓ Machine building;
- ✓ Materials Science:
- ✓ Instrument making;
- **✓** Transport;
- ✓ Earth sciences, ecology:
- ✓ Psychology, history, culture, economics, education;
- ✓ Electronics and photonics, nanotechnology, biotechnology, chemical technologies, space research

There are contracts between Belarusian universities and partners from 64 countries of the world within the framework of more than 1820 agreements



### Teaching staff of Belarusian universities

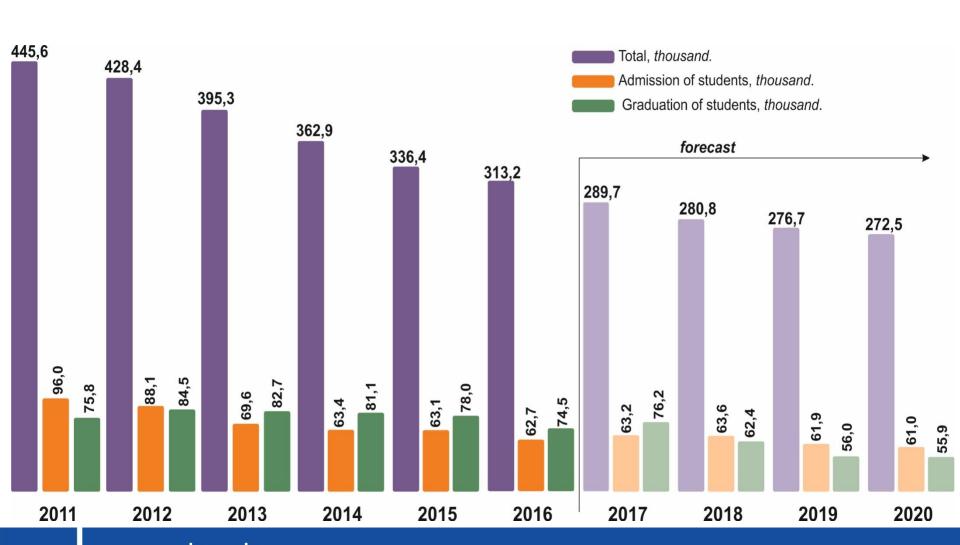
Teachers with scientific degrees (%)



More than 1 thousand teachers annually participate in the educational process at universities of Russia, Lithuania, Poland, England and others.



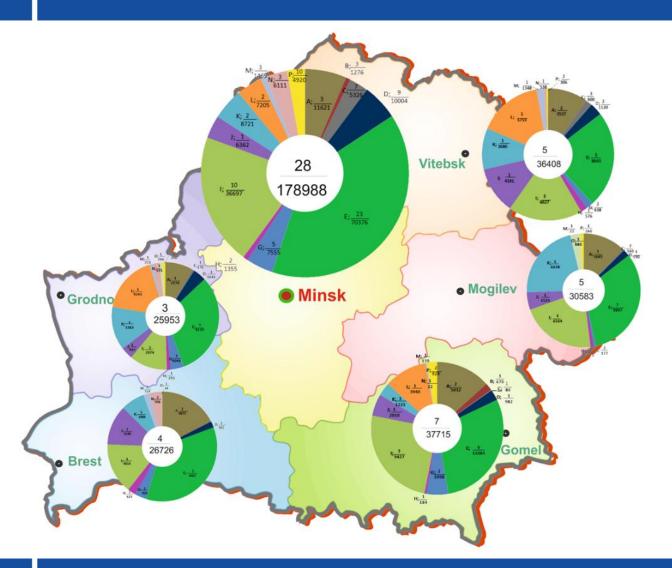
#### **Number of students (I Cycle)**



www.bsu.by



### Student contingent by region and education profiles



#### Higher education profiles:

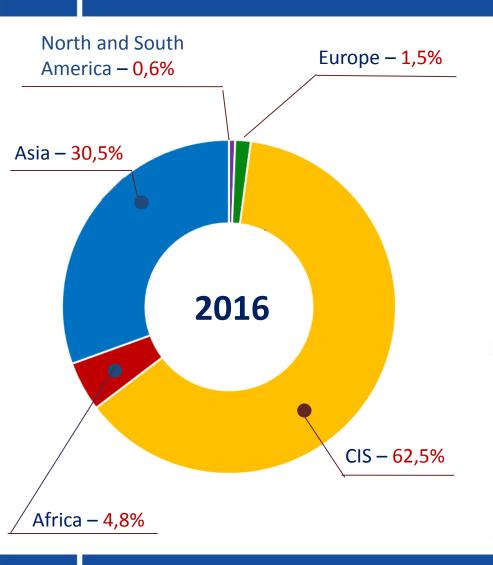
- A Pedagogics.
- B Pedagogics.
   Vocational training
- C Art and design
- D Humanities
- E Communications. Economy. Management.
- G Natural sciences
- H Ecological sciences
- Technics and technologies
- J Architecture and building
- K Rural and forestry
- I Public health services
- M Social defense
- N Physical training and tourism
- O Public catering.
- P Security service

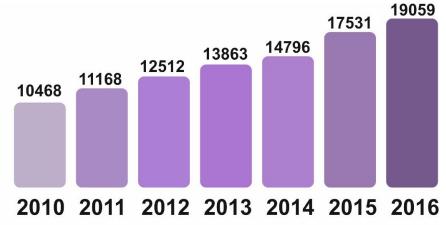
Total HEIs - 52, state - 43; private - 9.

Total students - 336 373 people, including: studying full-time - 178 182, studying part-time - 158 191, undergraduates - 10 227, foreign students - 17 938,



#### Number of foreign students





#### Foreign students: 19059 students from 98 countries:





#### Practice-oriented education

- internships in the modern companies with the latest equipment (up to 20 weeks);
- presence of the branches of departments, base institutions, joint training, research and industrial laboratories, scientific and production complexes in industries for all higher education institutions;
- participation of international experts and representatives of employers in the development of education programmes;
- link between the learning outcomes and specific problem solutions (related to research or production);
- etc.

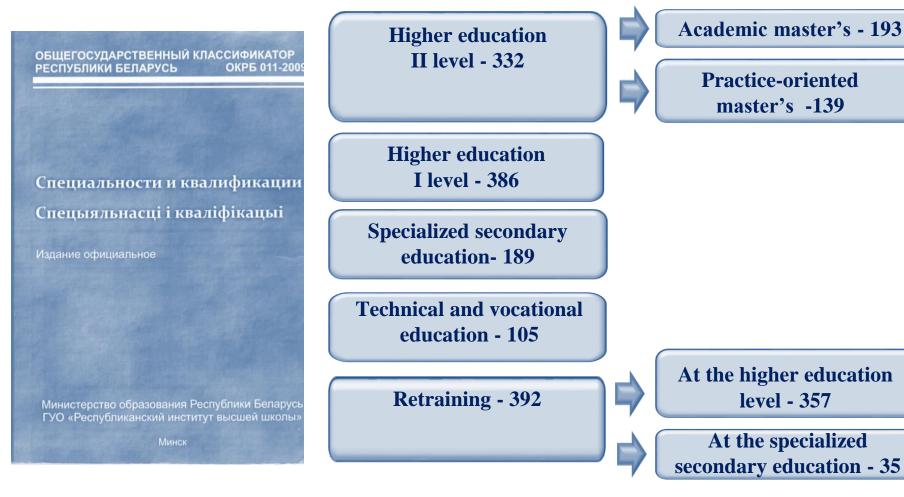








### The structure of specialties of vocational education system





### Regional cooperation in the field of education



#### **Commonwealth of Independent States (since 1991)**











Kazakhstan



Russia



**Uzbekistan** 



Kyrgyzstan

Moldova



**Tajikistan** 

Turkmenistan



Ukraine



#### **Eurasian Economic Community** (2001 -2014)







Kyrgyzstan



Russia



**Tajikistan** 

Uzbekistan



**Armenia** 



**Belarus** 

#### **Eurasian Economic Union (since 2014)**



Kazakhstan



Russia

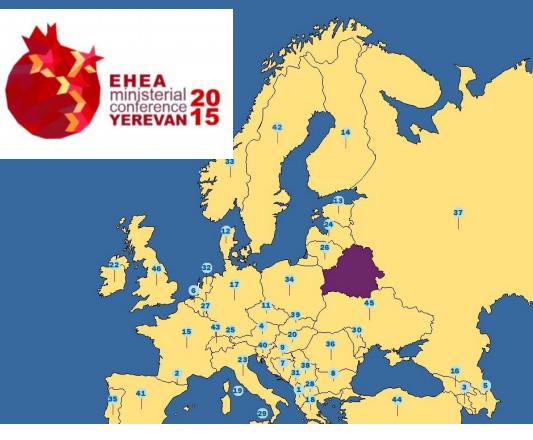


Kyrgyzstan



#### **Belarus in the Bologna Process**





On May 15, 2015 the Republic of Belarus became the 48th member of the European Higher Education Area

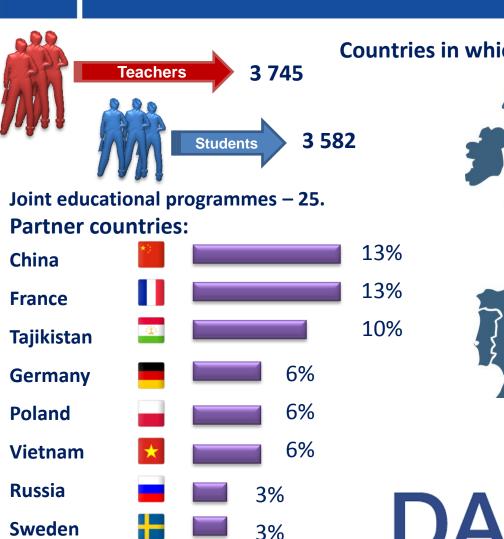


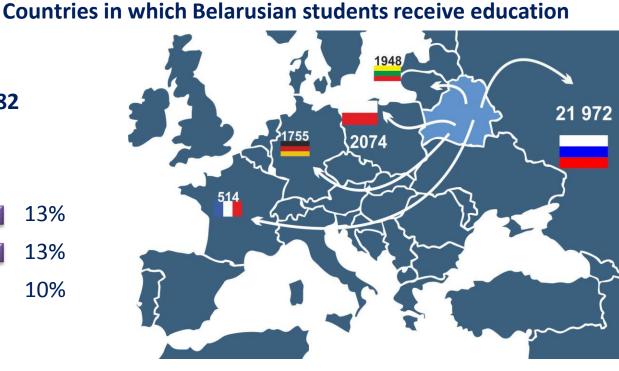
#### Joint education institutions abroad





#### **Academic mobility**











#### Foreign Credentials Assessment

International agreements on the mutual recognition of foreign credentials

Belarus China Moldova Uzbekistan Academic (for continuing education) and professional (for employment) recognition of foreign credentials is conducted by the Ministry of Education of the Republic of Belarus. Examination of foreign documents on education is provided by the Foreign Credentials Assessment Department (Belarus ENIC).

Foreign Credentials Assessment Department (Belarus ENIC)

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### Ways of modernizing higher education

- Improving the quality of training. Improving the efficiency of practice-based training and strengthening relations with the contracting organizations;
- Improving the competitiveness of higher education in the world educational area;
- Improving the system of planning and optimizing the structure of training specialists with higher education;
- Optimizing the system of higher education institutions and improving management of the higher education system;
- Improving the material and technical, educational and laboratory resources of higher education institutions



Law of the Republic of Belarus "On amendments and addenda to the Education Code of the Republic of Belarus"



### Optimizing the structure of Higher Education

I Cycle

II Cycle

Bachelor Degree 3-3.5 years (180-210 ECTS)\*

Bachelor Degree 4 years (240 ECTS)

Bachelor Degree 4.5 years (270 ECTS)

Master Degree 1-2 years (60-120 ECTS)

> 3 years

Aspirantura

Continuous higher education programs 5-5.5-6 years (300-360 ECTS)

\*The educational program of higher education, integrated with specialized secondary education

General second education (11 years)



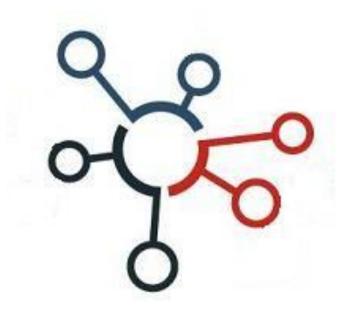
### Clustering in the system of higher education

### Educational Complex (CLUSTER)



- association of institutions of various levels of education: vocational, secondary specialized and higher education

#### **Network System of Universities**



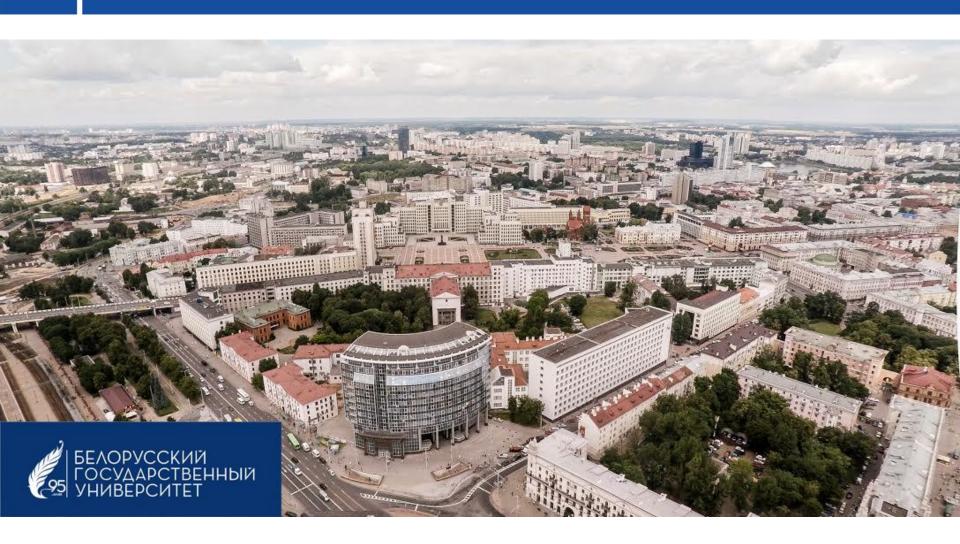
- forming clusters of educational institutions of the same level based on the principle of specialization

## Belarusian State University: in the country and in the world





### **BSU TODAY**

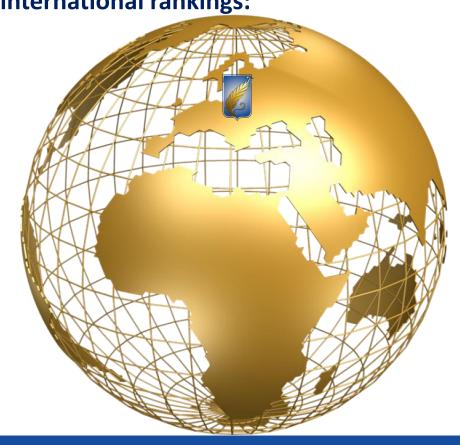




### BSU is among 2% of the best universities of the world

The BSU is among 2% of the best universities in the world and is included in more than 10 influential international rankings:

- > ARWU by Subject (Physics)
- > THE (TIMES HIGHER EDUCATION)
- > QS
- SCImago Institutions Rankings (SIR)
- Webometrics Ranking of World Universities (WRWU)
- **➤ U-Multirank**
- > RUR
- > 4icu
- > URAP, etc.





## ShanghaiRanking's: Global Ranking of Academic Subjects 2017

The BSU entered into the oldest and one of the most prestigious world rankings ShanghaiRanking's Global Ranking of Academic Subjects 2017 – Physics and took a place in the group 401-500. This is the first time when a Belarusian university is ranked by the Shanghai ranking.

The ShanghaiRanking's Global Ranking of Academic Subjects contains university assessment in 52 subjects, including natural sciences and engineering, life sciences, medicine and social sciences. In total, more than 4,000 universities were evaluated in the study. The final version of the ranking included 1,409 universities, including 12 Russian universities and one Belarusian university.



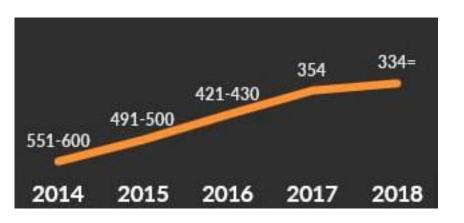


### QS World University Ranking 2017/18



the BSU took the **334**<sup>th</sup> **position**in the latest edition
of **World University Rankings 2017/18**released by the **British agency QS**.





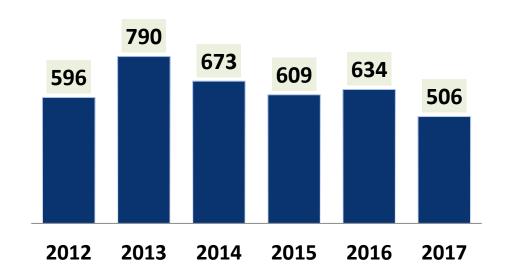
In 2015 the QS Agency entitled the BSU to use the **ranking logo** to emphasize high international reputation of the university on its website and in print media.



### Webometrics Ranking of World Universities 2017

According to the last edition of the excellence rating of Webometrics Ranking of World Universities BSU reached **506**<sup>th</sup> place.

(2% of the 30,000 universities existing in the world)







#### **BSU TODAY**

**BSU today** is a united powerful educational, scientific and production complex:

- **26** faculties and educational institutions
- 10 research and production institutes and centers
- **41** faculty research laboratories
- **10** innovation production enterprises
- **30** legal entities





### BSU is the leading educational center in Belarus

Founded on October 30th, 1921



In 2015 Belarus joined the Bologna process



BSU Quality Management System is certificated according to the requirements of STB ISO – 9001



### Faculties and Educational Institutions of BSU

- Pre-University Education
- Mathematics and Mechanics
- Applied Mathematics and Computer Science
- Radiophysics and Computer Technologies
- Physics
- Geography
- Chemistry
- Biology
- History
- Ecology



- Philosophy and Social Sciences
- Sociocultural Communications
- Business and Technology Management
- Management and Social Technologies
- International Relations
- **Economics**
- Philology
- Theology
- **Law**
- Military
- Journalism

29,000 students and graduate students (academic year 2016-2017)

There are more than 30 specialties of postgraduate courses that are available to obtain in English.



#### **BSU Staff**

	Total	8,800
	Teaching staff	3,650
	Scientific manpower	520
	Doctors of Science	410
	Candidates of Science (PhD)	1,940
	Associate Members of NASB	13
	Academicians of NASB	12



#### **Facilities**

- More than 100 buildings
- 3 campuses
- 10 dormitories
- 4 media classrooms
- University Network Resources
- Fundamental Library
- 3 sport complexes with swimming pool







# Research and Innovations at the Belarusian State University



# Implementation of the innovation chain stages in the BSU

#### **BSU** complex includes:

- educational
- scientific and research
- production units





# Entities of scientific, scientific-technical and innovational activities of the BSU complex

- 26 faculties and educational institutes
- 4 research institutes
- 2 national research centers
- 42 research laboratories at faculties
- 5 unitary enterprises

#### **University clusters by directions:**

- chemical materials and technologies
- ► development of educational and scientific equipment
- ► radio physics and production of measuring devices
- informational technologies



# Main types of products developed and produced in the BSU

### Hardware software complexes, equipment and devices

- Automated complexes
- Controlling and measuring devices
- Medical equipment
- Electronic components and devices
- Educational devices, equipment and complexes

#### **Equipment and instruments**

- Technological equipment
- Instruments

#### **Substances and Materials**

- Engineering and manufacturing
- Agricultural
- Medical

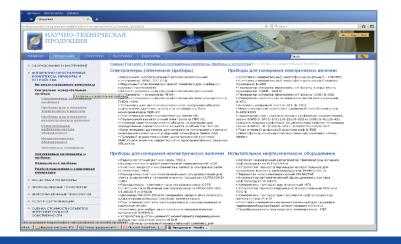
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#### Industrial technologies

- Application of coatings
- Production of medical dosage forms
- Biotechnologies
- Chemistry and petro chemistry
- Agriculture
- Power engineering and fuel

#### Informational technologies

- Science
- Education
- Management





### Sale of the results of scientific and technical activities

In 2016 the BSU complex sold science intensive R&D products to costumers of the Republic of Belarus to the amount of \$ 6,735.600 US, scientific services to the amount of \$ 5,554.900 US

The University will continue to increase its influence on the development of the key branches of the economy of our country, including:

- nano- and biotechnical sector
- pharmaceutical and chemical industry
- public health
- instrument engineering
- agriculture, etc.





#### **Export of R&D products**

### In 2008-2016 R&D products of the BSU have been exported in 39 countries of the world



#### Partner countries in 2016

- 1. Belgium
- 2. Bulgaria
- 3. China
- 4. Germany
- 5. Great Britain
- 6. Indonesia

- 7. Kazakhstan
- 8. Korea
- 9. Poland
- 10. Russia
- 11.Turkmenistan
- 12. USA

	Export	dynamics		
Year	2013	2014	2015	2016
Number of contracts	73	82	78	92
Number of countries	13	12	10	12
Amount, USD	1,891.000	2,239.500	2,132.500	3,021.600



# Cluster of "Chemical materials and technologies"



#### **Chemical Faculty**



Research Institute of Physical and Chemical Problems



#### **Production Enterprises:**

- "Unidragmet BSU"
- "Unitehprom BSU"



# Cooperation of UE "Unidragmet BSU" and the Chemical Faculty

- 32 technologies and methods of processing of secondary raw materials for extraction of precious metals were developed by the scientists of the Chemical Faculty of the BSU, the Research Institute of Physical and Chemical Problems and UE "Unidragmet BSU".
- 320 items of industrial and technological equipment.
- Allow to process more than 20 basic types of scrap and waste on its own production plant.



**State laboratory of assay analysis** accredited in accordance with STB ISO MEK 17025 for the use of 28 certified measuring methods of their own design and 4 GOSTs.

More than 4,5 thousand chemical and physicochemical analyzes are performed annually.



# Cooperation of Research Institute of Physical and Chemical Problems, UE "Unidragmet BSU" and UE "Unitehprom BSU"

Pharmaceutical products are developed by the full innovative cycle, from the formulation of the technical task to serial production jointly by the Research Institute of Physical and Chemical Problems and UE "Unitehprom BSU".

Medicinal substances and preparations that were produced in 2016 made up the amount of \$235,600 US.





In 2016, **UE "Unidragmet BSU" developed the manufacture of pharmacological substances** based on coordination compounds of platinum.

In 2016, UE "Unidragmet BSU" produced 0.18 kg of cisplatin and 0.1565 kg of oxaliplatin.

The products are delivered to the **UE** "**Unitehprom BSU**" for production of finished dosage forms.



# Cluster of "Radio physics and production of measuring devices"

Faculty of Radio physics and Computer Technologies is engaged in production of a number of measuring devices, that are produced at the UE "Unitehprom BSU".



Faculty of Radio physics and Computer Technologies



**UE "Unitehprom"** 







### Service of information-measuring systems of the UE "Unitehprom BSU"

- Computer-oriented measuring instruments for a wide range of purposes (oscilloscopes, generators, ADCs, DACs, etc.).
- Industrial measuring instruments (sound level meters, vibroacoustic analyzers, strain gauges, pressure and temperature gauges, etc.).
- Equipment for satellite systems of transport monitoring.
- Automated measuring complexes for testing and metrological services of enterprises.
- Custom-made control and measuring, monitoring systems for various purposes (analog and digital electronics, software).



# Cluster of "Development of educational and scientific equipment"





**Physical Faculty** 



**UE "Activ BSU"** 

Type of equipment	Quantity oa the equipment sold, number of sets					
	2012	2013	2014	2015	2016	
Equipment for general educational institutions (tenders)	988	17,316	18,260	11,620	1,950	
Equipment for district departments of education, sport and tourism under separate contracts	949	1,554	201	207	267	
Laboratory equipment for Higher Education Institutions	259	9	6	60	_	



# Scientific educational production cluster of "Information technology"



Research Institute of Applied Problems of Mathematics and Informatics



Faculty of Applied Mathematics and Informatics

### Research Institute of Applied Problems of Mathematics and Informatics is engaged in:

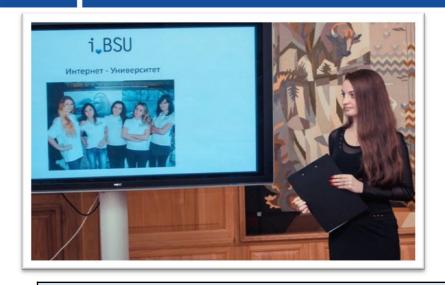
- establishment and development of new educational specialties and specializations at the Faculty of Applied Mathematics and Informatics in urgent areas being developed in the Research Institute:
  - "Economic Cybernetics", "Computer Security",
    "Applied Cryptography", "Econometric Modelling,
    Analysis and Forecasting", "Mathematical Methods of
    Information Protection"
- conducting training on special subjects

#### **Software Development**

- Formation of thesis topics, students' practical training, execution of master's, diploma and coursework are carried out on the basis of the real themes of the Institute.
- Cooperation with the companies of the High Technologies Park, National Bank of the Republic of Belarus, the institutes of the National Academy of Sciences of Belarus, and branch research institutes: RI of Technical Information Protection, N.N.Alexandrov National Cancer Centre of Belarus.



# Center of youth innovations and entrepreneurship "Start-Up BSU"





#### Aim of the Center

Development of the students' innovative potential to form a willingness to generate new ideas, create and implement innovative developments in production and social sphere

#### Tasks of the Center



information and methodical support of innovative youth ideas and projects



promotion of increase of personal entrepreneurial effectiveness and motivation of students to ensure growth of business activity



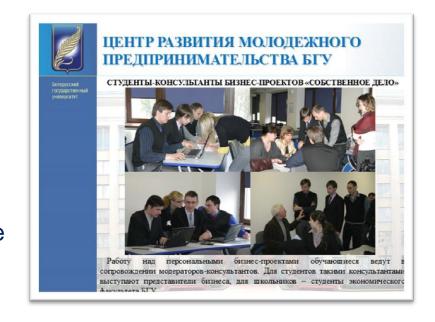
creation of conditions for implementation of joint initiatives and the development of interdisciplinary relations between Higher Education Institutions, research institutes, foundations and other organizations and business structures



# Educational scientific Center for development of youth entrepreneurship of the Economic Faculty

"School of Entrepreneurship and Management for Youth. Your own business" for students and young specialists.

Mission of the Center is to conduct research aimed at revealing the role of youth in the innovative development of the Belarusian society, practical implementation of research results, implementation of paid educational services that contribute to meeting the public and individual needs of the individual.





# Establishment of the University business incubator

#### Aim:

support of students, undergraduates, graduate students and employees in creation and development of new successful businesses that are based on research and development.







Selection of small businesses entities for allocation in the business incubator

#### Financing:

- 1. Grants (including international ones).
- 2. Targeted financing within the framework of the program for support of the entrepreneurship development.
- 3. Targeted financing as a part of the Student Initiative Support Program.
- 4. Extrabudgetary funds of the BSU.
- 5. Sponsorship and charitable contributions.



Rendering of educational, marketing, consulting and other organizational-administrative services to small business entities



# Establishment of a scientific and technological park of the BSU

It is assumed that a distributed-type technopark will be established on the basis of the UE "Unitehprom BSU"

Areas of scientific and technical activities for the formation period:



✓ development and manufacturing of new import-substituting medications and preparations



### **Instrument engineering**

✓ development and manufacturing of new import-substituting devices for continuous monitoring of high-temperature technological processes, instruments for measuring, testing and navigation



### Biological and food industry

development, research, introduction into manufacturing, production of food additives for bakery, macaroni, meat and fish products



# Specialization of the BSU Technopark



Power efficiency and energy saving



Ecology and rational nature management



Radio electronics and space technologies



Electronics and photonics



Medicine and Pharmaceutics



Systems and complexes of equipment



**Biotechnologies** 



Agriculture and food industry



Multifunctional materials and technologies

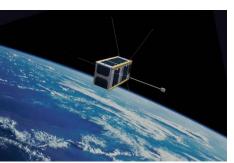


information and communication technology



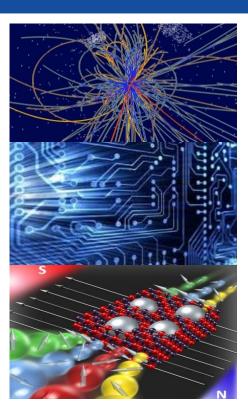
#### **FUNDAMENTAL RESEARCH**

- Nanostructures and nanotechnologies
- Laser technologies
- Space research
- Elementary particles and high-energy physics
- Theory of differential and integral equations
- Mathematical modeling of complex systems
- New materials and technologies
- Biotechnologies and genetic engineering
- Concept of macroeconomic stabilization in Belarus
- Juvenile justice
- Development of the National Atlas of Belarus











#### Basic R&D products of the BSU

#### Hardware-software complexes, devices and equipment

- Hardware-software complexes
- Control instrumentation
- Medical devices
- High-end devices and integrated circuits
- Training devices, equipment, systems

#### **Equipment and instrument**

Technical equipment

#### **Substances and materials**

- Industrial and agricultural substances
- Protective substances and materials
- Medical substances and biopreparations

#### **Industrial technologies**

- Biotechnologies and chemical technologies
- Fuel and energetics

#### **Information technologies**

- Information high-end technologies
- Information training technologies



More than 1,000 items altogether

www.product.bsu.by

www.bsu.by



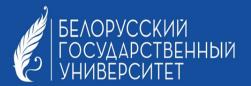
#### **Research Laboratories**

- geoinformational technologies in geomechanics and geodinamics
- information technology and computer graphics
- applied probability analysis
- biophysics and biotechnologies
- cell engineering and nanobiotechnologies
- bioanalytic systems
- dielectric spectroscopy of heterogenous systems
- nonlinear optics and spectroscopy
- power efficient materials and technologies
- semiconductors spectroscopy
- physics of electronic materials
- physics and instruments of semiconductors
- high-energy ionic implantation and functional diagnostics
- spectroscopic systems
- physics of ion-plasma modification of rigid bodies
- scientific instrument engineering
- materials and instrument structures of micro- and nano-electronics
- information-measuring system
- applied space technologies
- laser systems
- Belarusian folklore
- information processing methods

- information systems
- instrymental-analytical technologies
- Inorganic and general chemistry
- chemical-analytical systems
- hetero-organic synthesys
- radiochemistry
- physical chemistry of condensed medium
- applied problems of toxicity combustion products
- assay tests
- molecular genetics and biotechnology
- phytogenetics
- molecular genetics and biotechnologies of microorganisms
- human molecular genetic
- physiology
- physiology and biotechnology of plants
- metabolic biochemistry
- biochemistry and pharmacology of bioactive substances
- applied problems of biochemistry
- biotechnology
- transgenic plants
- hydroecology
- landscape ecology
- limnology



# International Cooperation of the Belarusian State University



#### International Cooperation

### About 400 cooperation treaties with universities from 54 countries of the world





#### **International Cooperation**



















- ✓ Around **400** cooperation treaties with universities from **54** different counties.
- ✓ **1,000** employees and **700** students are sent on academic missions abroad annually.
- ✓ Over **40** international projects.
- ✓ **12** joint programs with foreign universities.
- ✓ Membership in 7 International University Associations.
- ✓ 4 international centers in BSU.



### **Academic mobility**

#### **Annually:**

 more than 1000 staff members are sent abroad for study and research visits

 about 700 students are sent abroad for study and participation in conferences

about 100 incoming and 250 outgoing exchange

students
Top 7 countries outgoing mobility

**Top 7 countries** incoming mobility

1.Russia

2.Germany

3.Poland

4.China

5.Czech

6.Italy

7.France

1. Russia

2.Germany

3.Poland

4.Ukraine

5.China

6.Lithuania

7.Italy





### International projects

BSU actively participates in a number of the international projects









In 2016, there were 17 educational projects involving BSU. Among them:

- 5 TEMPUS projects,
- 5 Erasmus-Mundus projects,
- 4 Erasmus+ projects
- The program of Jean Monet,
- DAAD,
- UNFPA,
- Visegrad Fund,
- Information point of the Council of Europe.

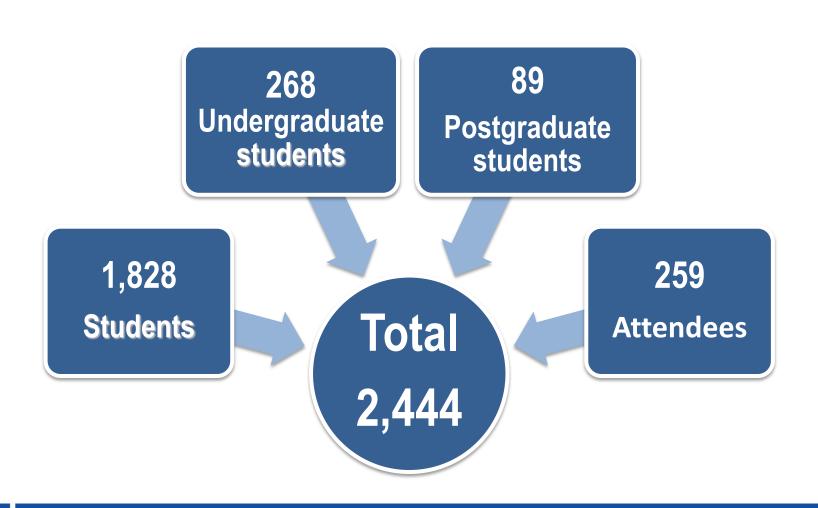


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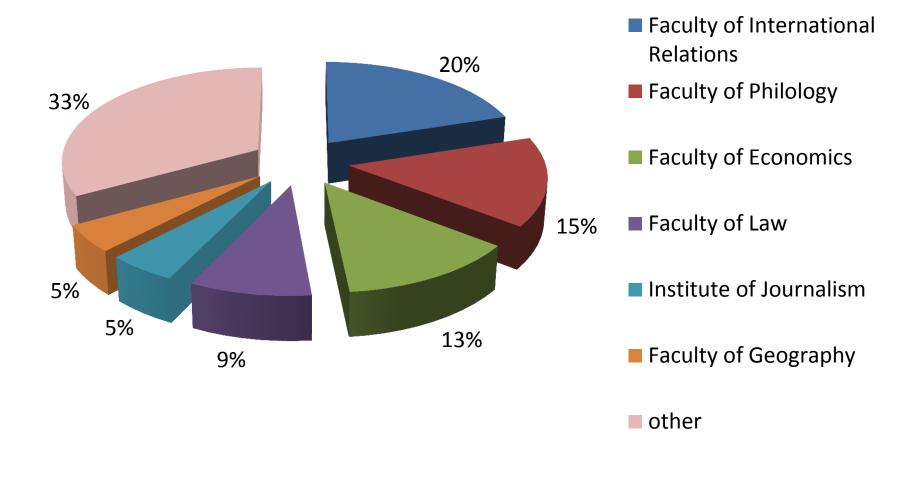


# International students 2016/2017



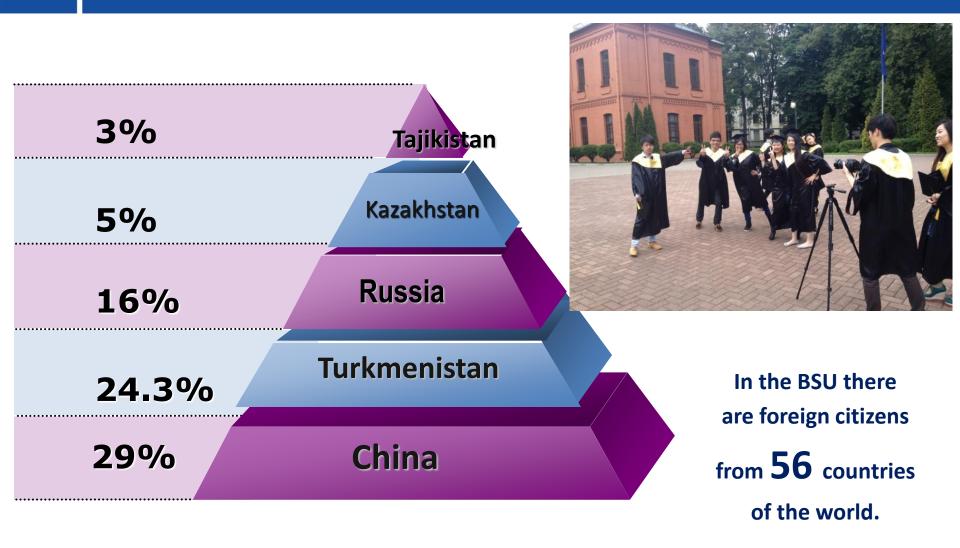


# Percentage of foreign students at different faculties in 2016-2017





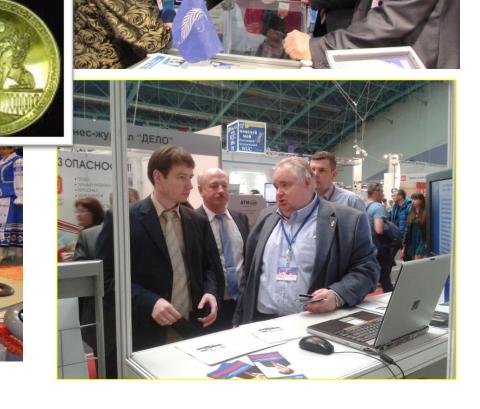
### The key share of export of BSU education services in 2016-2017





# Annually, BSU is represented at 20-25 international exhibitions

In Belarus, Bulgaria, China, Germany, Georgia, Italy, Japan, Kazakhstan, Russia, Serbia, Slovakia, Spain, Vietnam, United Arab Emirates, etc.





# BSU innovation awards on forums and exhibitions











#### International conferences

### Annually, the University hosts more than 90 international conferences, seminars and symposiums



www.bsu.by



# Innovative teaching & learning at the Belarusian State University



# Practice oriented teaching & learning

Belarusian State
University conducts
practice oriented
teaching in major
spheres including
Nuclear Physics
and Technologies.

A working Labmodel of Nuclear Power Plant is installed at the Faculty of Physics.





# BSU is getting ready to launch its students' space satellite

Belarusian State
University is
actively developing
its first students'
satellite to be
launched into space
in partnership with
China.

The satellite is developed by students within the frameworks of theirs study process.





# Distance Learning technologies as a part of everyday learning process

#### Образовательные онлайн-ресурсы БГУ

W F G H

Для создания новых курсов обращайтесь к администратору портала образовательных онлайн-ресурсов:

Галынский Владимир Михайлович, тел.: 209-54-33 email: galynsky@bsu.by

#### Информация для преподавателей

- Положение об образовательных онлайнресурсах
- Раздел портала для преподавателей БГУ
- База данных «Учебные программы БГУ»

Как создать собственный онлайн-ресурс за 3 недели

#### Дистанционные школыБГУ

- Дистанционная математическая школа механико-математического факультета
- Дистанционная школа юных историков

#### Психологическое тестирование

 Психологическое тестирование студентов младших курсов Заочная программа повышения квалификации 
"Использование технологий 
«смешанного» обучения при 
разработке электронных учебных 
курсов (на основе LMS Moodle)"

Методический семинар «Медиамастерская университетского преподвателя - 2017». Дополнительную информацию можно узнать по адресу: hubarevich@bsu.by

#### Образовательные ресурсы факультетов

- Механико-математический факультет
- Физический факультет
- Факультет радиофизики и компьютерных технологий
- Географический факультет
- Биологический факультет
- Исторический факультет
- Филологический факультет
- Экономический факультет
- Факультет прикладной математики и информатики
- Факультет философии и социальных наук
- Химический факультет
- Институт журналистики
- Факультет международных отношений
- Юридический факультет
- Факультет социокультурных коммуникаций
- Факультет доуниверситетского образования
- Общеуниверситетские кафедры

С действующим Положением об образовательных онлайнресурсах БГУ можно ознакомиться на сайте БГУ в разделе Образование / 
Информация для профессорскопреподавательского состава

**Ж** Календарь

	September 2017				7	
lH.	Вт	Ср	Чт	Пт	C6	Bc
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

The portal of
Online educational resources
of the Belarusian State
University – a collection of
hundreds of online courses for
students in major disciplines.
www.dl.bsu.by



### Digital Lecturing

Online Lectures,
Webinars and
VideoPodcasts
as everyday
teaching and
learning
technologies





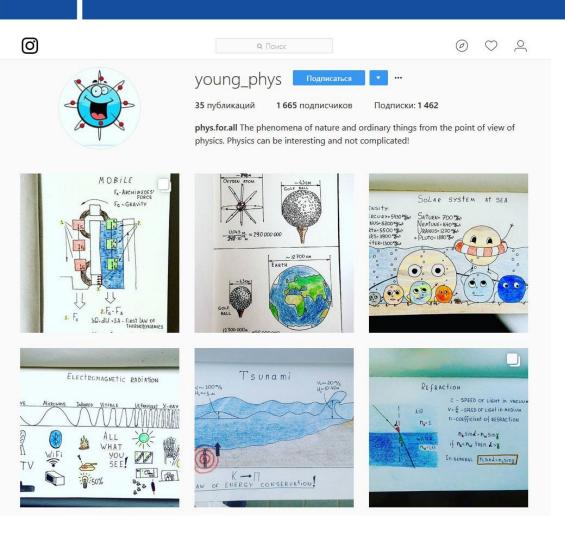
# Augmented Reality as a tool in teaching and media communications

Augmented Reality applications add more dynamic content to traditional forms of education and media.





## New Media and Social Networks in Education



"Physics for all" – a new Instagram project at the Faculty of Physics of the BSU





We are always open for cooperation!