



Northern (Arctic)  
Federal University

The new Russian Arctic University,  
vision and how to get there

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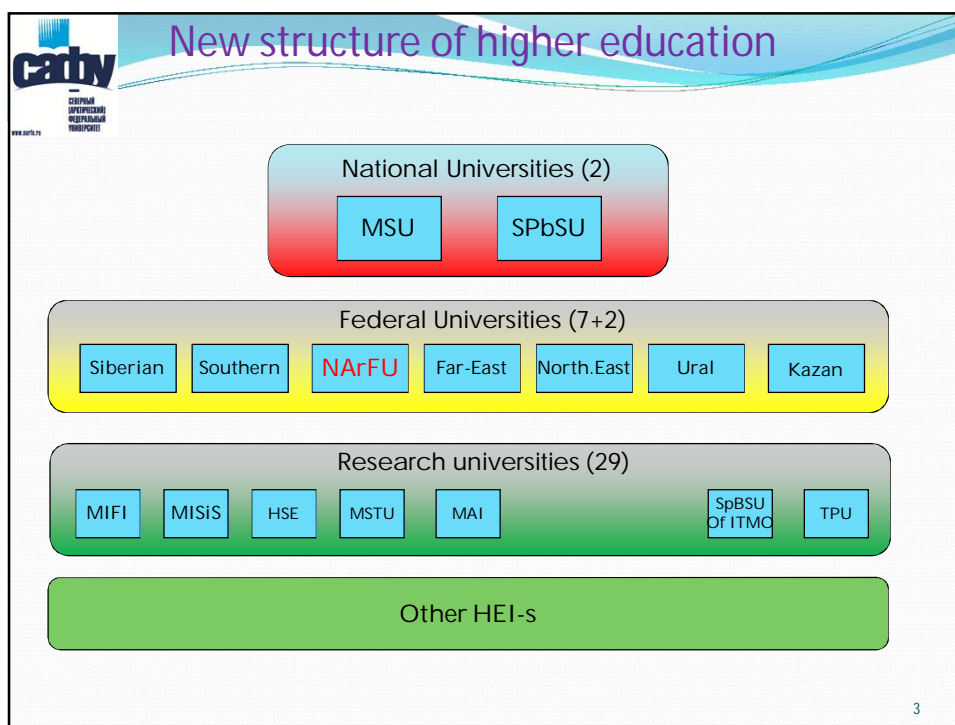
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Tromso, 2011



CONTENT

1. Development Program of the Northern (Arctic) Federal University (NArFU)
2. Opportunities in Education and Research: international cooperation



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 ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ  
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## Federal universities



### NEW kind of HEI-s:

- To offer innovative educational programs integrated into international educational space
- To provide modernization of higher professional education
- To use modern educational and research technologies for the complex regional development
- To integrate research, education and production

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## Federal universities

Principles of academic activities:

1. Academic autonomy
2. Research-based education
3. Focus on the centers of excellence
4. Inter-disciplinarity and cross-disciplinarity
5. Focus on master and PhD programs
6. Development of new research trends
7. Development of academic mobility
8. Variety and mobility of educational programs
9. Modern educational standards
10. Modern educational technologies

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## Northern (Arctic) Federal University

October, 21 2009

- Decree of the President of the RF N 1172

April, 2 2010

- Decree of the Government of the RF N 502-p

April, 26 2010

- Decree of the Ministry of Education and Research of RF N 434

October, 8 2010

- Decree of the Government of the RF N 1695 on Development Program of the Northern (Arctic) Federal University (NArFU)

**Goal of Northern (Arctic) Federal University**

Personnel and scientific support of the protection of geopolitical and economic interests of Russia in Northern-Arctic Region



**THE ARCTIC VECTOR**  
nation-wide strategy of Russia's development up to 2020

1. Activation of work on oil-and-gas fields development
2. Study of arctic continental shelf
3. Geological-and-geophysical justification of external border of Russia's continental shelf in the Arctic Ocean
4. Increase of production of marine bioresources in the Arctic
5. Increase of Northern Maritime Route competitiveness
6. Rise in the living standards of population and securing high standards of life support

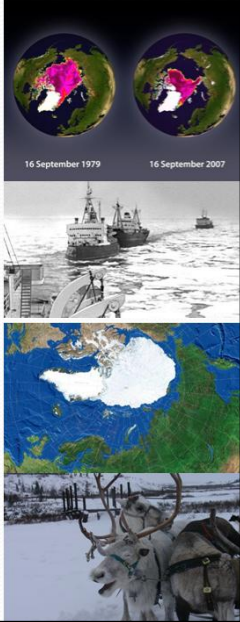


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### THE ARCTIC VECTOR

nation-wide strategy of Russia's development up to 2020

7. Improvement of state administration system for socio-economical development of the Arctic zone
8. Strengthening good neighborhood relations with circumpolar states
9. Ensuring national security in the region
10. Decline of damage to environment
11. Adaptation of infrastructure objects to predictable climate changes
12. Development of information-communication technologies



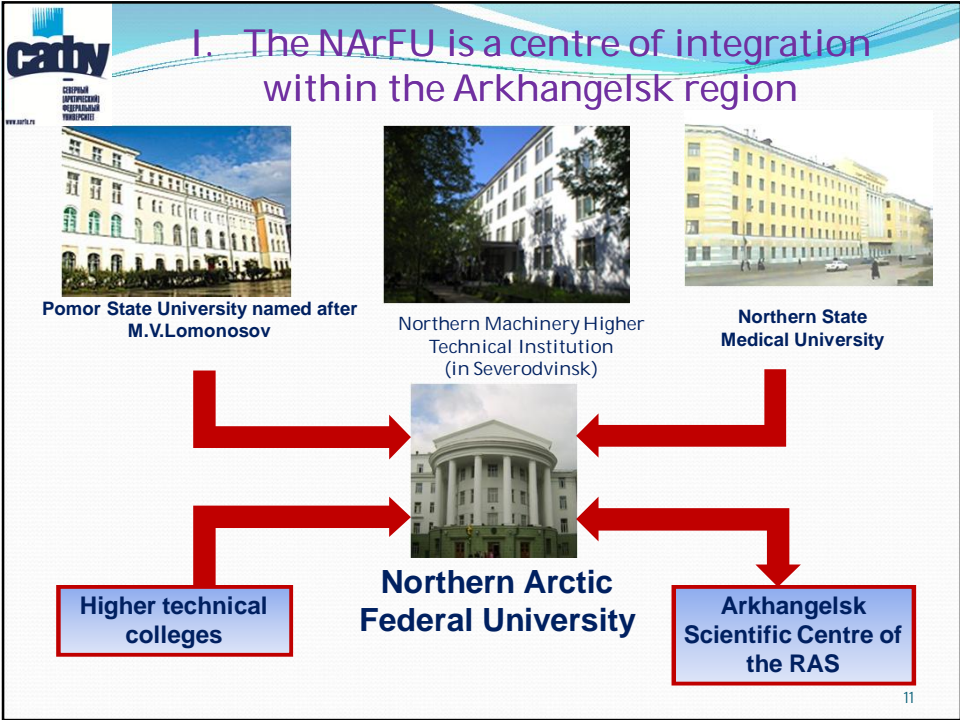
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### General aims

(Program of development)

1. Modernization of education (competitiveness)
2. Development of innovative research
3. Quality improvement of academic and administrative staff
4. New infrastructure
5. New management system
6. High-qualified staff





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- Institutions (Departments)**
1. Institute for Architecture and Construction
  2. Institute for Oil and Gas
  3. Forest Institute
  4. Power engineering Institute
  5. Institute for informatics and control systems
  6. Institute for Chemistry and Chemical Technology
  7. Institute for Economics
  8. Institute for Social and political science
  9. Institute for Law
  10. Institute for Psychology and pedagogy
  11. Institute for Fundamental sciences
  12. Institute for Linguistics
  13. Institute for Culture and Arts
  14. Medical Institute
- Four small photographs are shown on the right side of the list:
- Top photo: A group of people holding flags.
  - Second photo: A group of people in a classroom setting.
  - Third photo: A group of people in safety vests and hard hats.
  - Bottom photo: A person in a red jacket climbing a snowy slope.

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## NArFU: expected numbers after the merger has been completed

- 30 000 students
- 177 education programs
- 28 Master programs
- 75 PhD and post-doctoral programs
- 129 higher education professional programs
- 26 secondary education professional programs
- 57 professional education programs for workers

**Energy Resources in the Arctic**  
 30 % of the world's undiscovered natural gas and 13 % of the world's undiscovered oil in the Arctic (source: USGS)

1. South Kara Sea  
 2. North Kara Sea  
 3. Laptev Sea  
 4. East Siberian Sea  
 5. Chukchi Sea  
 6. Alaska North Slope  
 7. East Greenland  
 8. Barents Sea

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## Internationalization of education and research: priority tasks

1. Educational programs based on academic mobility:  
 2010 (5) 2015 (12) 2020 (22)
2. Research projects on competitive base:  
 2010 (19,8) 2015 (30) 2020 (42)
3. Research projects (long-term):  
 2010 (5) 2015 (8) 2020 (12)
4. Research projects (international sources):  
 2010 (13,7) 2015 (17) 2020 (20)
5. Visiting professors:  
 2010 (2) 2015 (8) 2020 (10)

**II. The NArFU is a centre of cooperation with Professional Education Institutions of the RF**

- North-Western Federal District: Karelia and Komi Republics; Murmansk, Vologda, Leningrad, Novgorod, Kaliningrad, Pskov Regions, Saint-Petersburg; Nenets Autonomous Okrug
- National, federal, research universities (through Association of innovative Universities of the RF, partnerships, networking, bilateral agreements)



**III. The NArFU is a centre of cooperation with business (innovations)**

- Advisory committees
- Engineering Centre
- Technical, Humanities and High-Technology Clusters
- Cooperation in education and research programs





**IV. The NArFU is a centre of cooperation with Russian Academy of Science**

November 2009 – agreement with RAS Board and Ural Branch of RAS for cooperation on NArFU development  
 April 2010 – joint external session in Arkhangelsk of Scientific Councils on development of regional RAS branches for the Arctic and the Antarctic

Cooperation:

- RAS branches in the scientific fields (chemistry and material science; biological sciences; earth science, etc.)
- Regional research centers in Saint-Petersburg, Karelia, Kola



**V. The NArFU is a centre of research**

- Centre of Analytic Research
- Arctic space monitoring Centre
- Centre for collective use on research equipment "the Arctic"



**cahy** **VI. The NArFU is a centre of International Cooperation**

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- Development of internationalization of education and research and harmonization of educational system in the framework of the Bologna process.
- Development of joint educational programs in cooperation with foreign partner-universities with focus on master programmes and PhD.
- Development of academic mobility programs as the main tool of competitiveness and attractiveness of education.
- Development of networking within the University of the Arctic.
- Development of joint scientific research and research-educational projects.
- Export of educational services.





**cahy** **University of the Arctic Research office**

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- Networking and capacity building
- Arctic research policy implementation
- IASC
- IASSA
- Knowledge and Dialogue
- Thematic networks
- Secretariat
- President
- Ma-Mawi, UArctic Senior Management Team







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## University of the arctic Research office






- Increase the cooperation between UArctic members as providers of Arctic research
- Increase access to research funding
- Ensure access to research opportunities
- Practical implementation of the agreements with IASC and IASSA



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## Participation in the circumpolar networks

- Norway: strategic partnership with HEIs, twin-universities (NArFU-UiT)
- Finland-focus on joint master programs and mobility (BCBU)
- Canada-focus on research cooperation (via Canadian Institute in Oslo)
- USA- research cooperation with focus on climate change (University of Alaska Fairbanks, University of Northern Caroline)


 **Priority Field of University Development in International Collaboration**

1. High-tech science-consuming branches and productions
2. Development of infrastructure in the European North of Russia and the Arctic
3. Complex use of bioresources
4. Development of northern (polar) medicine and healthcare
5. Environmental protection and conservation
6. Social-humanitarian sphere of the European North of Russia and the Arctic



16.09.2010 - a historical border deal between Russia and Norway

*Prime minister Stoltenberg: "Norway and Russia have developed a broad cooperation in the north consisting of organization, cultural workers, businesses, educational- and research institutions etc."*





 **International events in 2011** 

April. 26 – Youth Arctic Summit  
June 6-10 – Solovetsky Forum  
June 25-31 – VII International Socio-Ecological Forum  
June 26 –II Forum of the association of innovative university of the RF  
September 23-25 – II International Forum “Arctic is the area of the dialog”  
November 19-21 – 40 Lomonosov’ readings

 **Thank you very much!  
Welcome to NArFU!**



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