



Siberian Federal University

Enhancing SibFU International Competitiveness for Sustainable Development of Siberia and the World



Research



Progress



Technologies



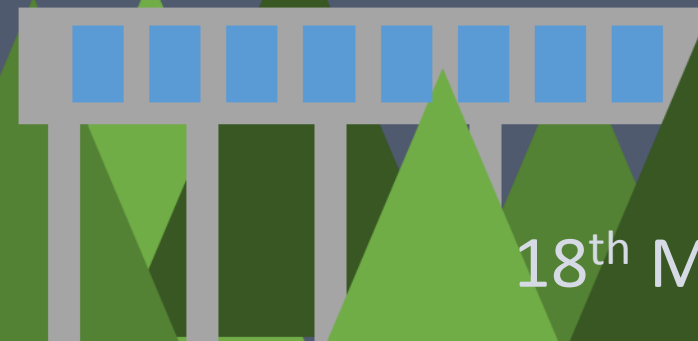
Innovations



Explorations



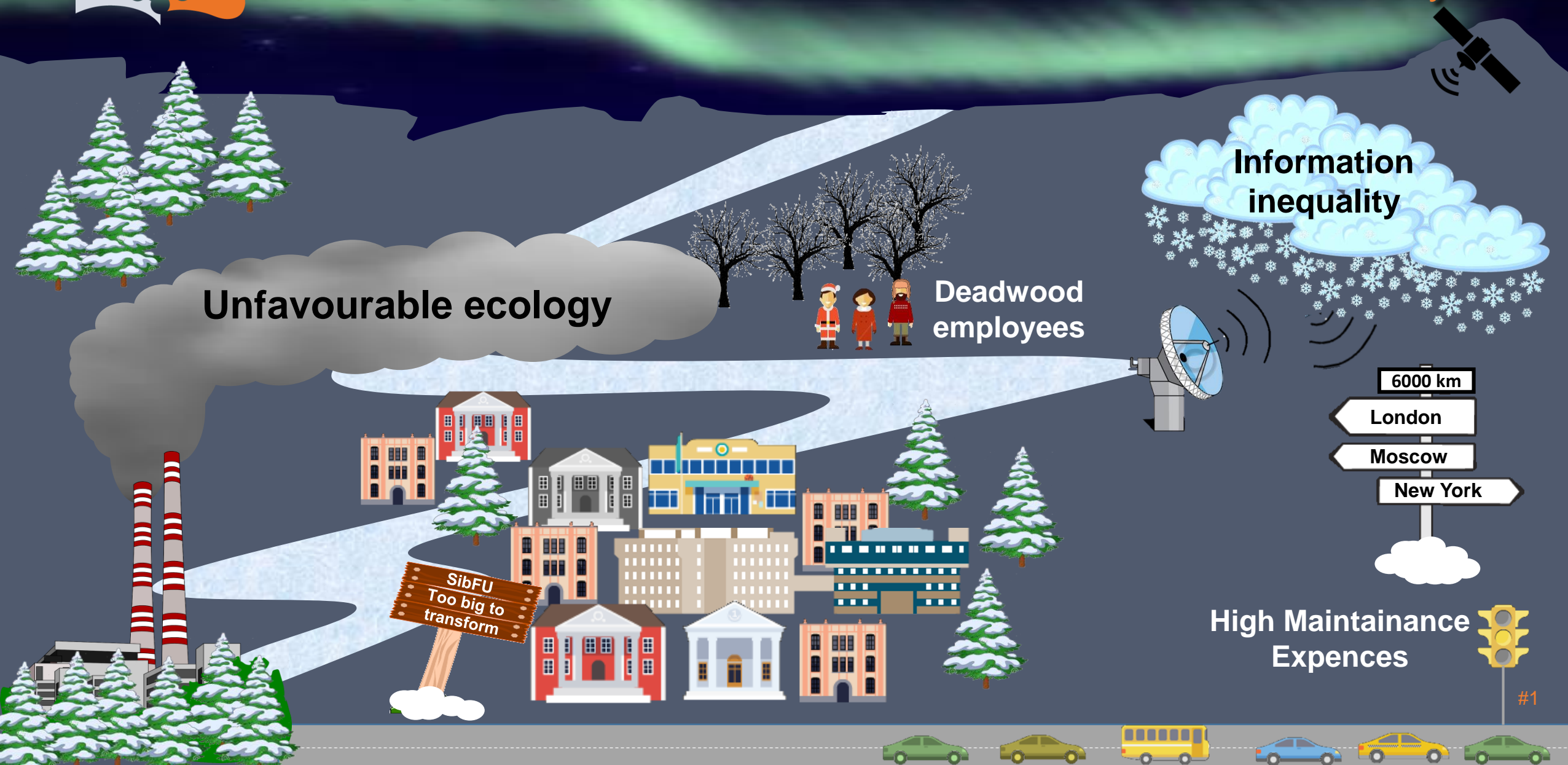
Ambitions



18th March 2016



At -40°C even Stanford would turn into Silent Frozen University...





... but in Siberia we have resources to become
a World-class University

SibFU RESOURCES



STRATEGY

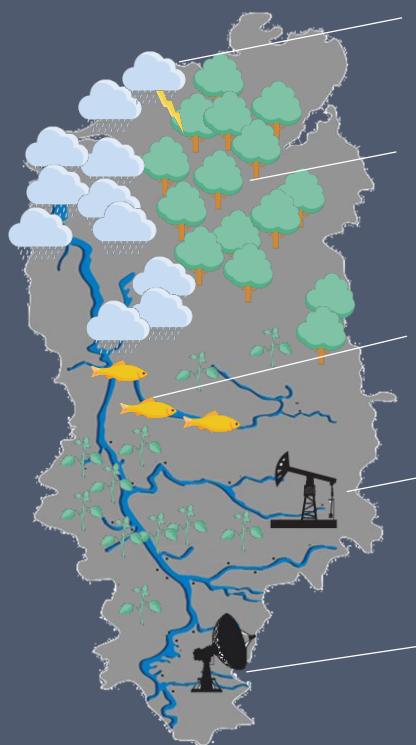
- The mission of SibFU is to provide comprehensive support for **sustainable environmental management** in **unique territories** that are rich in renewable resources
- The university stands for a well-balanced approach to applying environmental and energy-efficient technologies in exploiting **ample natural resources**, while protecting the environment



Focus on global challenges localized in Siberia will help us to overcome gaps in reputation and visibility



Global challenges



- Climate change research
- Reduction of CO₂ emissions
- Enhancement of the quality of living
- Mining effectiveness
- New electronics

will help to...

- 👍 Attract global attention to SibFU
- 👍 Improve visibility and exposure

...overcome the gaps

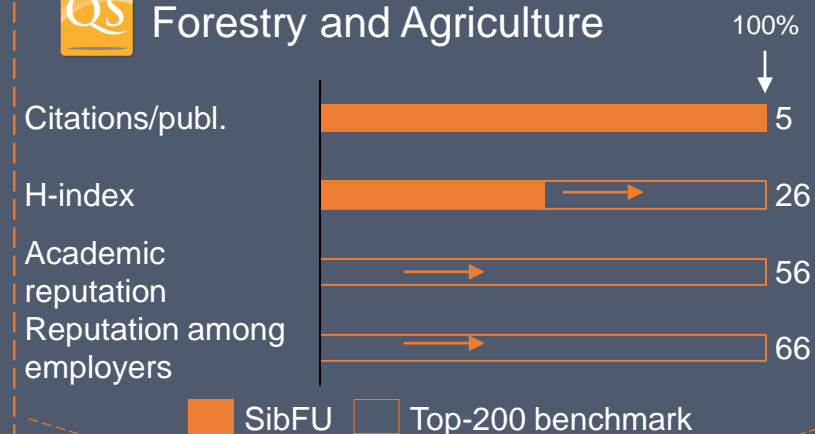
- ❌ Lack of reputation
- ❌ Insufficiency of international students
- ❌ Insufficiency of international staff

STRATEGY

Focus on reputation will help us to improve our position in rankings



Forestry and Agriculture



Presence in rankings will improve reputation and foster development



I. Unique Location for Research

#3



SibFU will go global in cooperation with its corporate partners - mining & energy transnational companies



COMPANIES	KEY FACTS	COUNTRIES	COOPERATION	
 NORILSK NICKEL	 #1 in global production		Center for Mining Management & Systems Development research	
 ROSNEFT	 #1 in global production		Complex for Drill Sample Research	
 Schlumberger	 #1 oilfield service company		Laboratory for Deposits Modelling	
 RUSAL	 #2 in global production		Center for Aluminium Technologies	
AND EVEN MORE	 ROSATOM	 RusHydro	 POLYUS GOLD INTERNATIONAL	 GAZPROM

STRATEGY

- Establishing new joint R&D centers with leading mining and energy companies
- SibFU will be a global center for developing, adapting and implementing technologies in unique climatic and geographical zones

SibFU aspires to become a global research and education partner for transnational mining and energy companies



We know how to educate engineers of the future



FIRST RESULTS

- **Elite master** programmes in cooperation with **industrial partners**



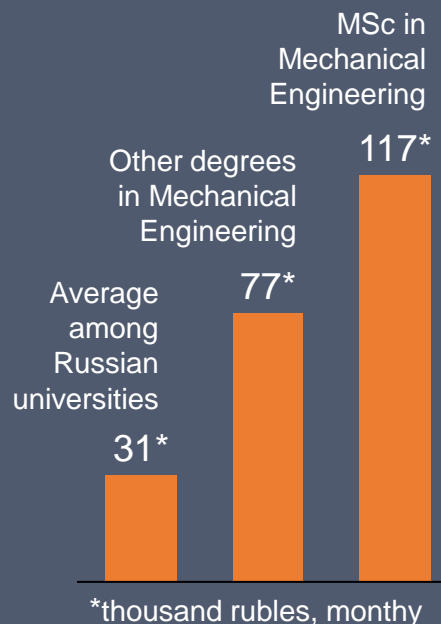
- **CDIO programmes** based on Skoltech and Leiden University with a focus on

- Leadership
- Team work
- Project mgmt
- Communication skills
- Technology entrepreneurship
- Foreign language proficiency

- **8 week internship abroad** at leading international companies



- **High starting salary** for graduates
- SibFU is **6th University in Russia** in terms of employers' demand for its graduates *



STRATEGY

- Promoting best practices in all Bachelor's and Master's programmes at the newly established Higher School of Engineering
- Launching Master's programmes taught in English in the University's key research areas
- Attracting the best international students to the University's programmes

SibFU will gain strong global reputation for its engineering programmes

*Expert RA, national ranking agency



SibFU research topics attract talent from all over the World



PostDoc SibFU



PostDoc applicants in 2016

40

Brazil Spain
Norway UK

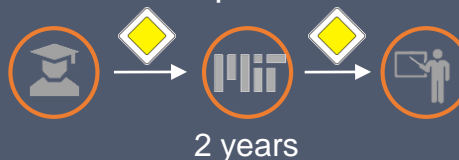


We build talent pool

... with no inbreeding...



... but with hunger for external expertise



2 years

PhD SibFU

SibFU is the third university in Russia to confer **PhD degrees** in accordance to **international standards**



6 SibFU PhD programmes

60 PhD applicants in 2016

STRATEGY

- Expanding PhD programmes
- Focusing resources on attracting young researchers
- Enhancing PostDoc programmes
- Stimulating SibFU PhD graduates to acquire research experience at leading universities

SibFU will have young and motivated international team



Our most important resource is innovation energy
of our students and research staff



RECENT STARTUPS

Airdrone Complex



■ Turnover*
■ Invested*

10,5

65

Medical Biopolymers

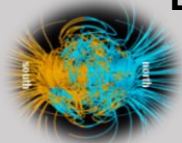


Clinical trials at
N.V. Sklifasovsky
Scientific
Research Institute

Invested*

120

Magnetic Hydrodynamics LTD



■ Dusseldorf
Expo 2015

■ Turnover*

128

■ Invested*

16

INFRASTRUCTURE

SibFU
Innovative
Consulting
Center



Business
incubator



Industrial
Park



*million, rubles

STRATEGY



Involving students in
entrepreneurial activities



Motivating faculty to develop
and support innovations



Developing an
entrepreneurial environment

SibFU will bring innovative energy
for solving global challenges

V. Innovations for Sustainable Development

#7



No other regional university receives as much regional government support as we do



FIRST RESULTS

- Regional Law "On Government Support for the Siberian Federal University", 2007

STRATEGY

- Strong support and infrastructure as a foundation for further development
- Regional government funding will be matched with Program 5-100 goals

Government investments
in 2008-2015*

3,9
bln. rubles

Government investments
for 2016-2019*

7,1
bln. rubles



Infrastructure for
the XXIX
Universiade

#1

Best dormitory in
Russia

World-class
Campus

VI. Regional Support for the Future

#8

* Investments into infrastructure for SibFU



Positive transformational experience is a resource for our future growth



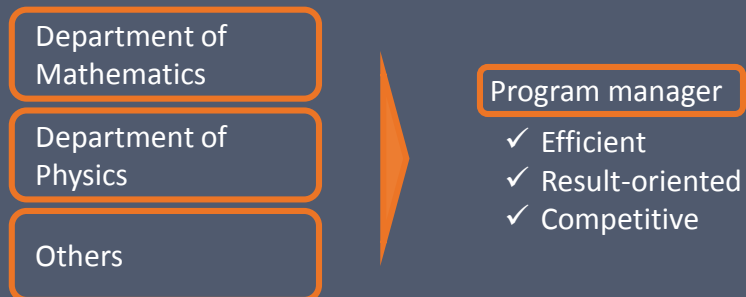
FIRST RESULTS

SibFU has extensive experience in restructuring...

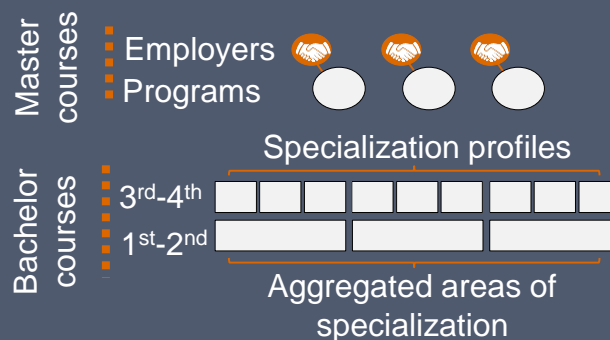


...as well as in education modernization

Management of education programs



Education aligned to students needs

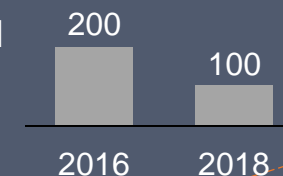


STRATEGY

- Developing a clear structure of 6 Schools

- I BIOM Taiga
- II Biotech Cluster
- III Higher School for Engineering
- IV Natural Sciences School
- V Human Sciences School
- VI Higher School for Management

- Integration of the academic structures and eliminating internal barriers



SiFU will boost productivity at all levels

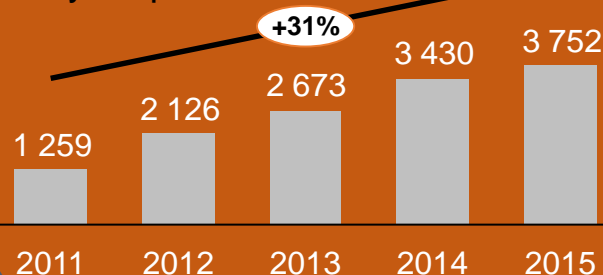
VII. Transformation in pursuit of Efficiency



We have everything to become a World-class University

Rapid growth of research impact

Citations for 5-year period



Leading in 5-100 Program
2nd in terms of normalized citation impact, WoS

Attracting best scientists

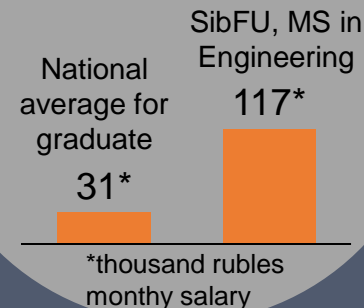
Osamu Shimomura



Nobel prize in chemistry

PhD programs

Education that pays off



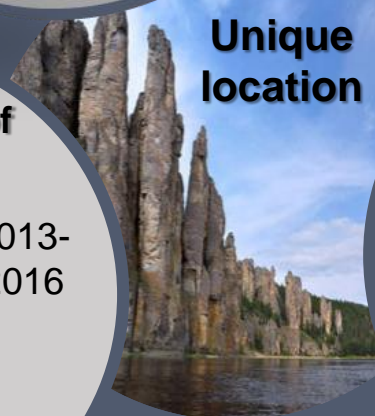
Strong regional support

7,1

bln.rubles
2016-2019



Unique location

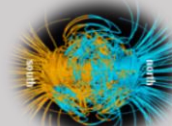


High quality of publications



2013-2016

Innovation energy



Magnetic hydrodynamics LTD

- Dusseldorf Expo 2015
- Turnover: 128 mln rubles
- Invested: 16 mln rubles

Relationships with industry

Schlumberger



NORILSK NICKEL



RusHydro



ROSNEFT



RUSAL



ROSATOM



POLYUS GOLD
INTERNATIONAL