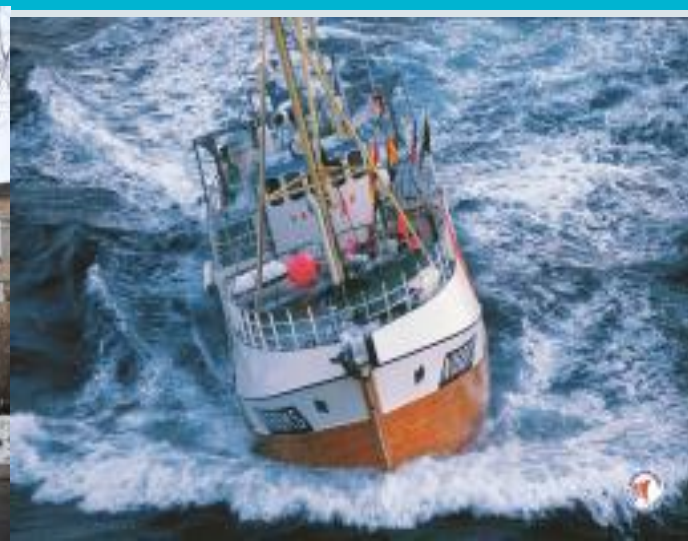


# Status and perspectives for extended research and development cooperation between Norway and Russia

**Kristin Høiby**

Senior adviser/ Programme coordinator NORRUSS  
Research Council of Norway



# Public support for R&I ...



Ministry of Education and Research



**The Research Council**



Other Ministries

Higher  
education  
sector



Research  
performing  
organizations



Industry



a budget of 1 billion Euros...



## Norway has strong research fields...

- renewable energy
- geology (Earth sciences)
- petroleum technology
- climate change
- marine
- maritime
- clinical medicine
- public administration
- arctic sciences

## Roadmap for bilateral research cooperation






### Research cooperation with Russia

The Research Council has drawn up roadmaps for cooperation with eight priority countries outside of the EU/EEU: Brazil, Canada, China, India, Japan, Russia, South Africa and the US.

The roadmaps contain background information about the research policy and the research and innovation systems in the priority countries, Norway's cooperation with these countries, and an assessment of areas of and opportunities for cooperation. The roadmaps are intended to provide a basis for setting priorities and encourage more targeted cooperation with the selected countries.

The roadmaps are a follow-up of the white paper on research, Meld. St. 18 (2012–2013) *Long-term perspectives – knowledge provides opportunity*, which identifies these eight priority countries.

#### Table of contents

1. Key data and summary of conclusions .....	2
2. Brief description of Russia's research policy and R&D system .....	2
3. Russia's strengths and weaknesses within research and innovation, and the country's international standing .....	6
4. Existing cooperation with Russia .....	7
5. Grounds for considering cooperating with Russia .....	9
6. Current priorities for Norway's activities vs 2-vb Russia .....	10
7. Follow-up and implications .....	10

The roadmaps for international cooperation were approved by the Executive Board of the Research Council on 28 September 2014. More information about the Research Council's international cooperation is available at [www.forskningssidstet.no/internasjonalt](http://www.forskningssidstet.no/internasjonalt)

Russia, one of eight  
priority countries outside  
of EU

- ❖ Brazil
- ❖ Canada
- ❖ China
- ❖ India
- ❖ Japan
- ❖ Russia
- ❖ South Africa
- ❖ US

#### Attachments

[Roadmap Russia](#) (PDF-530.2 KB)

[Annual report 2014](#) (PDF-318.1 KB)

[NORRUSS Midterm Evaluation Final Report](#) (PDF-1 493.8 KB)

[Report no 7 to the Storting](#) (PDF-5 029.2 KB)

[Strategy for International cooperation](#) (PDF-221.7 KB)

Bibliometric Study in Support of Norway's Strategy for  
International Research Collaboration

Final Report

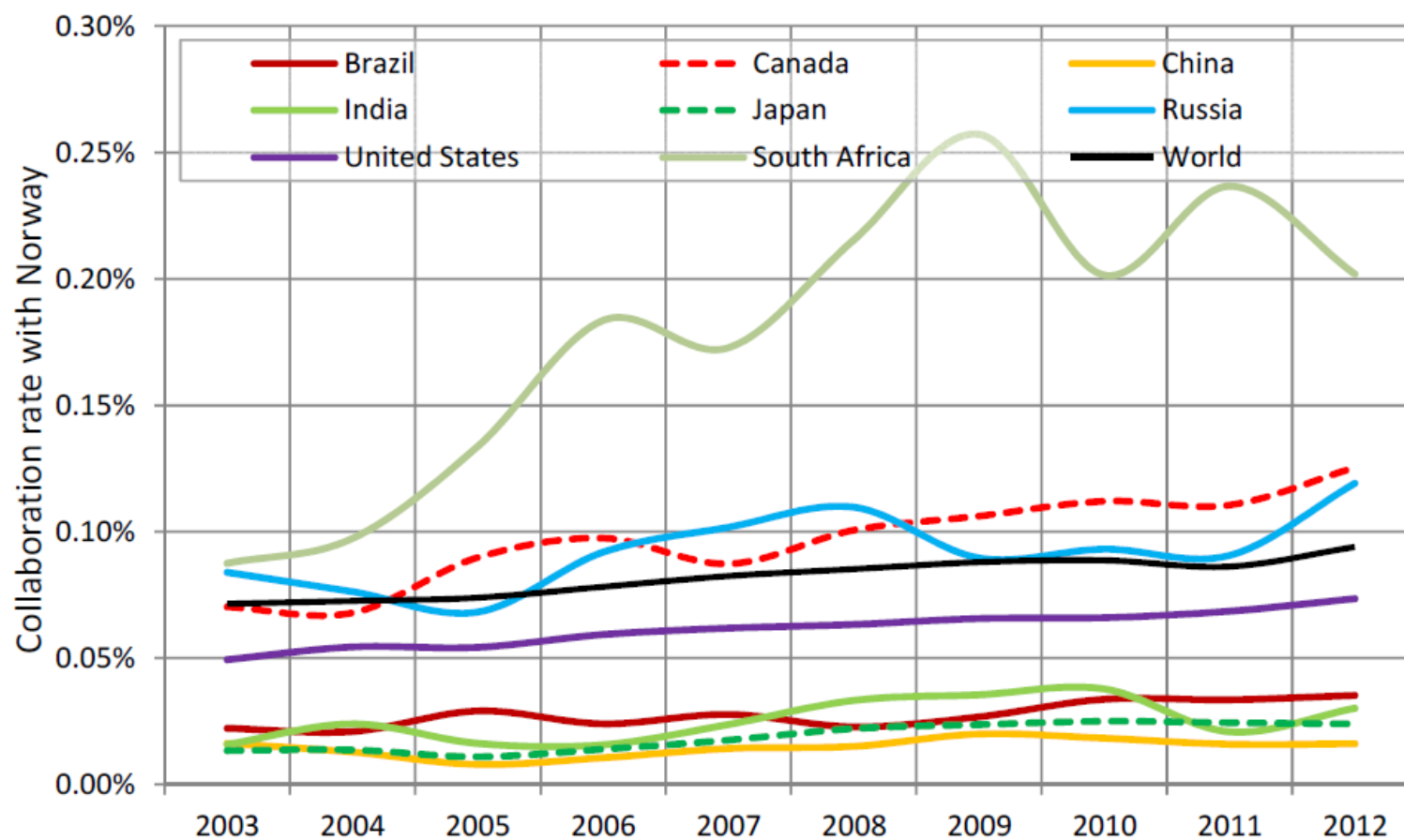
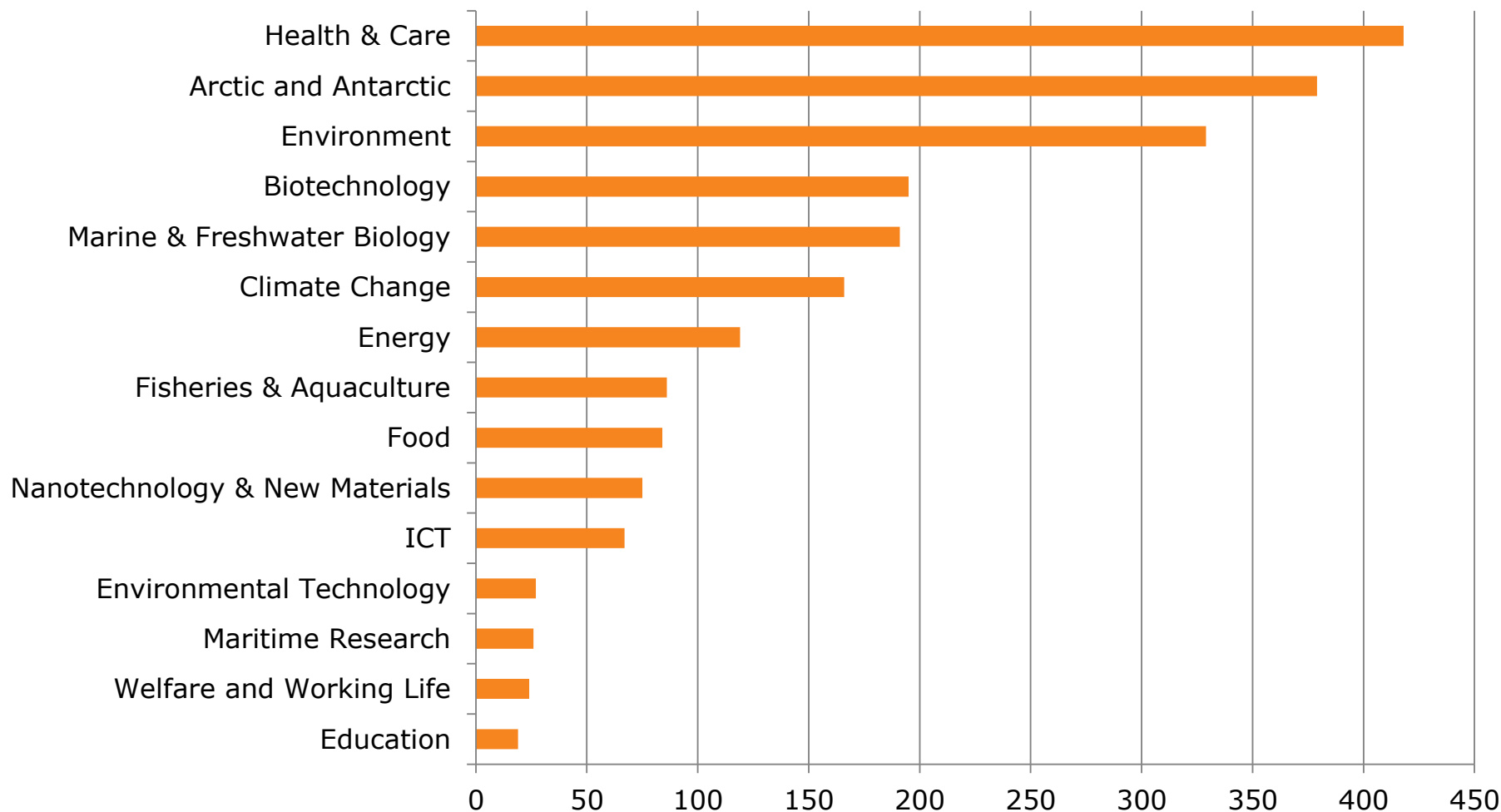


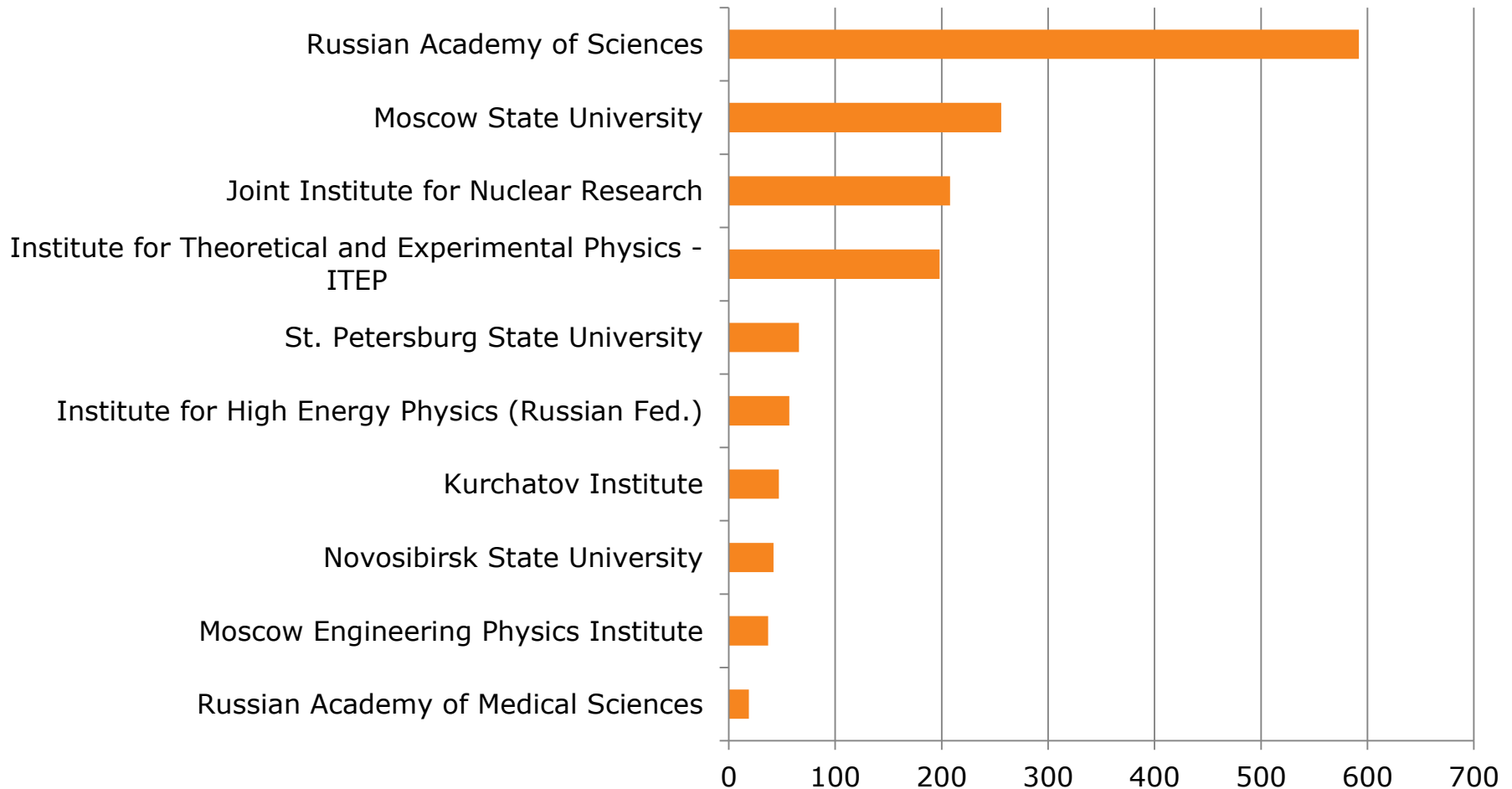
Figure 4 Collaboration rate of selected countries with Norway (2003–2012)

## Number of co-publications Russia and Norway by thematic area. Total 2003 – 2012.



Source: Scopus/Science Metrix

## **Top 10 Russian institutions co-publishing with Norway. Total number of co-publications 2010 – 2012.**



Source: Scopus/Science Metrix

## Interdisciplinary and bilateral cooperation

- RCN have **cooperation agreement** and **joint calls** with the Russian research foundations since 2012.

- RFH (Russian Foundation for Humanities)
- RFBR (Russian Foundation for Basic Research)



RCN (the Petromaks2 programme) have **cooperation agreement with**

- Oil & Gas Research Institute (RAS) in Moscow
- Arkhangelsk Scientific Center (RAS- Ural Branch)

## Programs/Instruments supporting research collaboration between Russian and Norwegian Research Institutions

- RCN national programmes:
  - PETROMAKS 2 (Petroleum)
  - POLAR and Climat Programmes
  - MARINFORSK (Marine Resources and the Environment)
  - NORRUSS (Northern / Arctic Area and Russia)
  - INTPART (International Partnership for Excellent Education and Research)



## **NORRUSS Pluss 2018-2023**

Research on the High North / Arctic and Russia

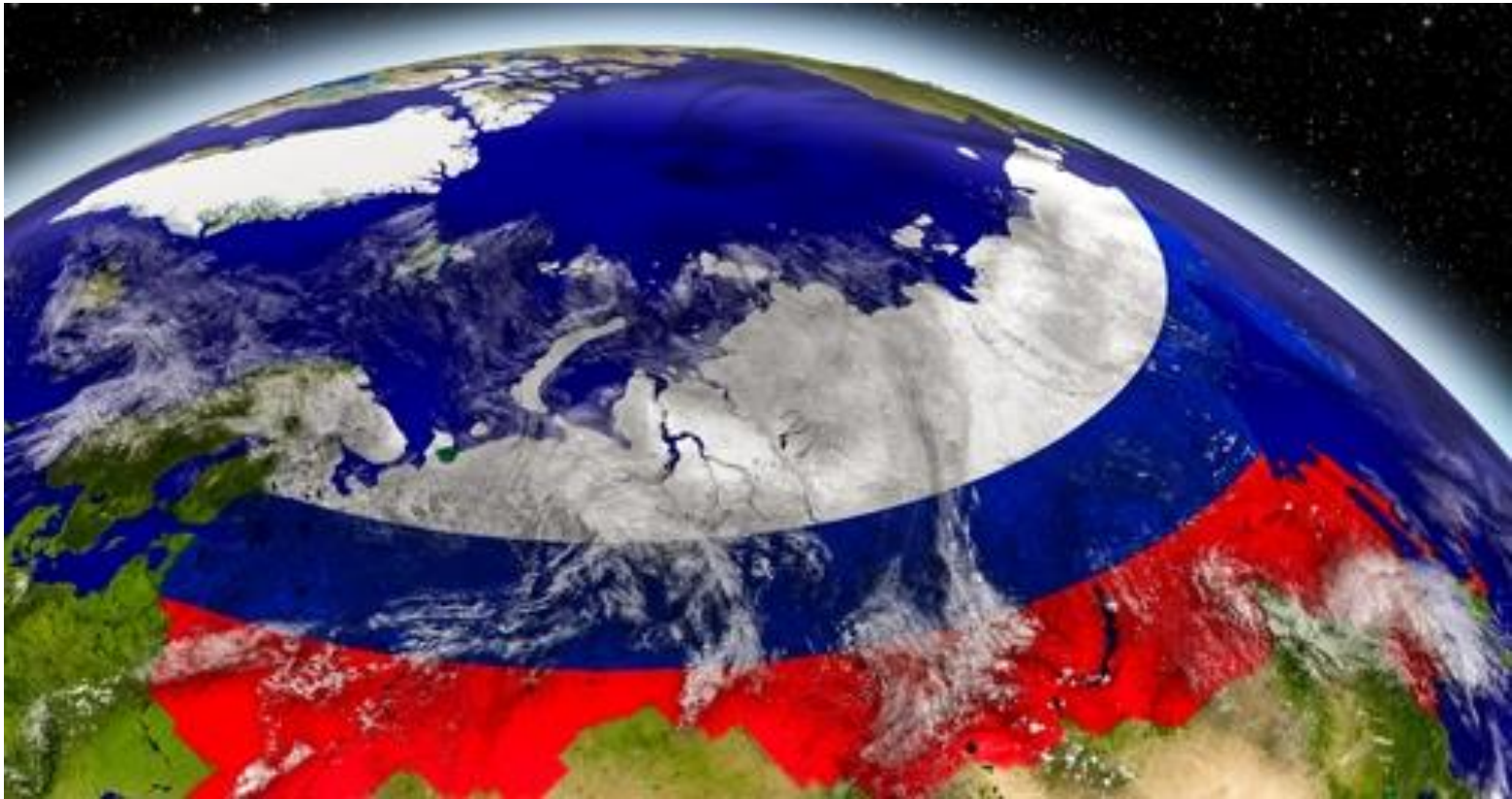


Photo: Shutterstock

## NORRUSS 2018-2023

### Thematic priority areas

The programme will focus on the following thematic areas:

- Challenges and opportunities in the High North and the Arctic
  - Geopolitics and governance
  - Ocean based resources and environmental challenges
  - Social and economic development, business activity
- Russian foreign relations, geopolitics and security
- Developments in Russia; politics, economy and society
- Developments in Ukraine, Georgia and Moldova.



Photo: MID RF

[www.forskningsradet.no/norruss](http://www.forskningsradet.no/norruss)

## **Some examples of Norwegian-Russian business related research**



## Industrial Innovation Projects by NORRUSS



### **Norway King Crab AS, Bugøyenes**

Together with researchers from  
EcoContour in St.Petersburg

Portabel heart rate measurement  
system

- Documenting animal welfare,
- Raising customer awareness
- Giving access to international  
high priced markets

## Research and innovation, King crab flying first class



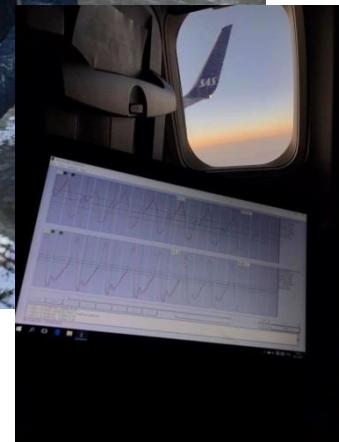
**Svein Ruud** har lagt til 2 nye bilder.

7. november kl. 23:08 · 

World news! For the first time in history we will Thursday this week log heart beats on crab during a flight. What happens to stress level during take off, cruising altitude and landings. All thanks to Russian scientists and good support from Research Council + SAS. It was however some work explaining flight security control why 3 Russians wanted to bring a box with cables, some boxes, all connected to a lap top...



Photo: Roman  
Vasiljev, Norway  
King Crab



## Industrial Innovation Projects by NORRUSS

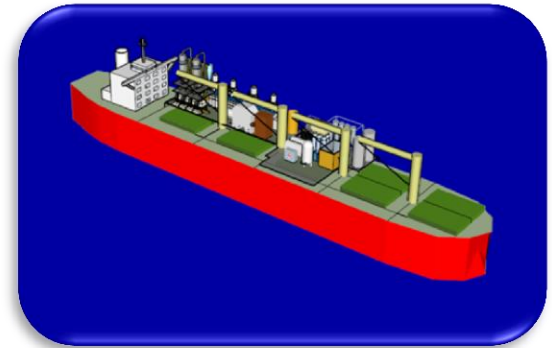
### Tschudi BioCoal AS

Together with Sovfracht and Institute of Forestry in Arkhangelsk

Floating Production, Storage & Offloading Bio Coal Unit

Based on:

- Norwegian maritime know-how on logistics and the use of FPSO
- Raw materials from the area around the Irtysh and Ob rivers
- The Northern Sea Route
- Floating production of wood into biocoal /pellets for electrical production – export



## Arctic Shipping through Challenging Waters

- Analyze whether existing regulatory measures are adequate to protect the vulnerable marine environment and biodiversity of the Arctic.
- The role of the Arctic coastal States as illustrated by Russia in regulating shipping in Arctic waters.
- The Polar Code and other regulations on Arctic shipping.

### Project manager:

The Arctic University of Norway, Tromsø  
Professor Tore Henriksen



Part of the A-LEX – project “Regulating Arctic Shipping: Political, legal, technological and environmental challenges”

# Areas of research cooperation for the years to come

- Marine and environmental Research
- Energy and Ocean Technology/ Research for the High North
- Urban living in the North, common challenges and transferable solutions. Smart cities.
- Health and welfare in the North. Cross border preparedness and emergency assistance

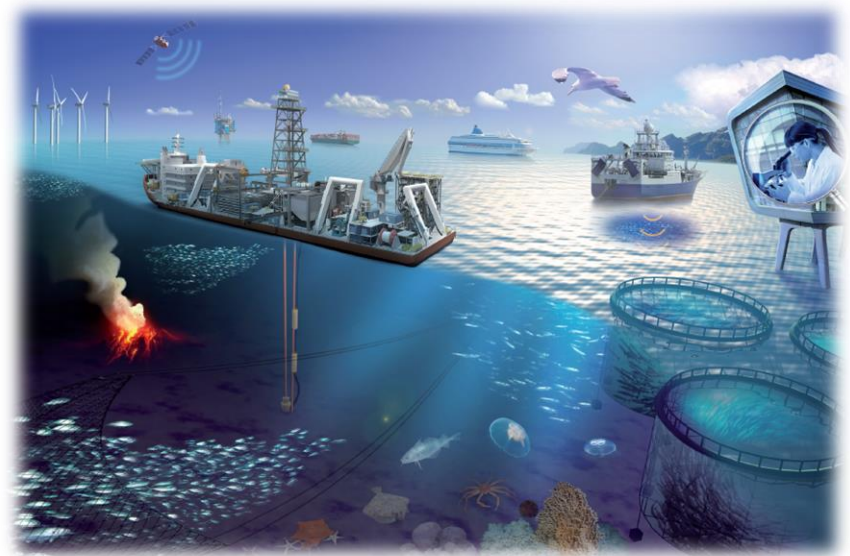


Illustration: OECD, Blue Ocean 2030