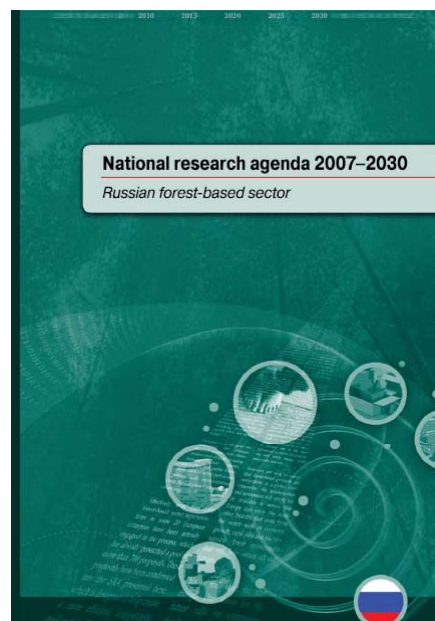




# Strategic Research Agenda and the Russian National Research Agenda: common priorities

Natalia V. Lukina  
Centre for Forest Ecology and Productivity RAS

Science and innovations are the most important factors for bio-economy development



## Importance of NRA



- **Most of Eurasia forests falls within Russia, area of Russian forests is about 22 % of the world forests.**
- **Russian forest accounts for 30 % of raw materials in the world market.**
- **Russia holds 26 % of the world's pristine forests**

## Importance of NRA



- **The Russian forests represent significant financial, ecological and social values.**
- **In the long run, it will not be economically justifiable to manufacture other than higher value-added products.**

## The objectives of NRA



- **Promote development of the Russian forest-based sector: sustainable forestry, pulp and paper industry, wood processing, bio-energy, green chemicals and composites**
- **Contribute to education in forest-based sector.**
- **Contribute to more efficient research.**
- **Improve the level of innovation.**
- **Stimulate increased research funding and utilise the possibilities of different national and international financial funds and programmes**

### Priorities: forest industry development

- **Modernization of Pulp and Paper with:**
  - **implementation of bio-techology,**
  - **addressing the environmental problems**
- **Building with wood**
- **New bio-based products (wood-plastic composites, bioactive substances and etc.)**
- **New (green) forest chemistry**
- **Bioenergetics**
- **Biotechnologies for utilization of accumulated wastes**

## Priorities: forestry development

- **Biotechnologies for forest stand management**
- **Trees with desired properties (tailor-made)**
- **Biotechnologies for maintenance and reproduction of forest genetic resources**
- **Biological protection of forests**

**Priority research areas  
referring to the SRA strategic objectives  
defined by the FTP Strategic Research  
Agenda**



**The Strategic Research Agenda had identified  
18 priority research areas, and the Russian  
NRA keeps almost all of them taken as the  
relevant to fit the Russian Forest-based  
sector issues**



## Areas of common priorities

1. Tailor-made wood supply
2. Enhanced biomass production
3. Cascade use of renewable materials
4. Forest ecology and ecosystem services
5. Multi-purpose use of forests
6. Building with wood
7. New bio-based products
8. Smart packaging solutions
9. Hygienic and healthcare products
10. Resource efficiency improvements in manufacturing
11. Sustainable water systems
12. Zero waste pulp&paper value chain
13. Biorefinery concepts
14. Renewable energy solutions
15. Bio-energy products

