



ERA.Net RUS Workpackage 4 on “Sustainability”
Preparation of an ERA-NET PLUS with Russia
October 29 - 31, 2012; Moscow



RUSSIAN ACADEMY OF SCIENCES: OVERALL PERFORMANCE WITH FOCUS ON INTERNATIONAL COOPERATION

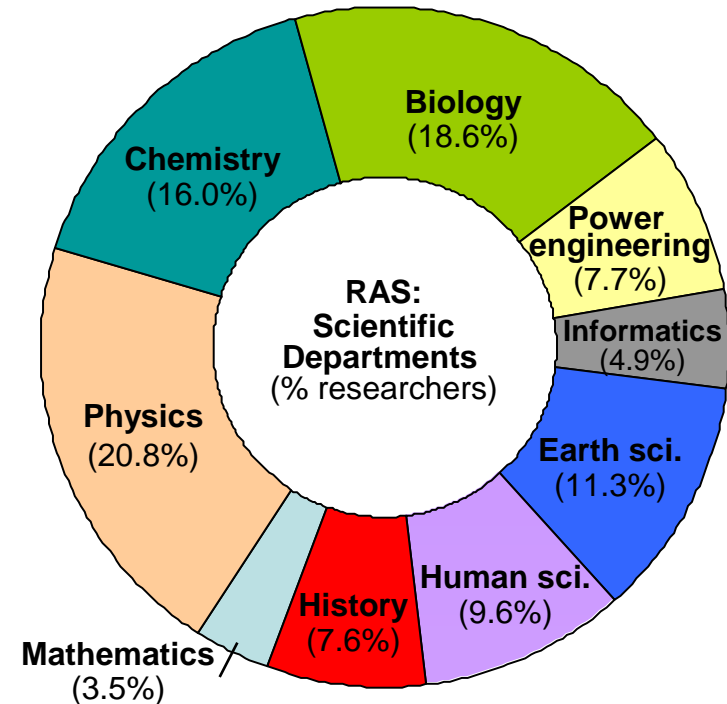
M.V. Ugrumov

Presidium of the Russian Academy of Sciences



Russian Academy of Sciences: *Management*

1. State Self-governed
Non-commercial Organization
2. Annual Budget: **3088,99 M \$** (total)
 - Budgetary financing: **2118,86 M \$**
 - Extrabudgetary financing: **903,6 M \$**
3. Number of:
 - Research Institutes: **436**
 - Scientific Departments: **12**
 - Regional Centers: **34**
 - Regional Branches: **4**
4. Number of:
 - Employees: **95 771**
 - Researchers: **48 315**
 - Academicians: **531**
 - Corresponding-members: **769**



New departments:

- ✓ Nanotechnology and information technologies
- ✓ Physiology and basic medicine
- ✓ Global issues and international relations.

Russian Academy of Sciences: *Overall Performance*

Objectives:

- Generation of *new knowledge* in Basic and Social Sciences;
 - Development of *innovative technologies* and their transfer to industry;
 - *Training* of PhD students and postdocs;
 - *Coordination and expertise* of Basic Research in Russia.
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Financing:

- Basic;
- Targeted programs under competition:
 - ✓ RAS Presidium and Scientific Departments;
 - ✓ Ministry of Education and Science;
 - ✓ Russian Foundation for Basic Research;
 - ✓ Russian Foundation for Humanities;
 - ✓ “Bortnik’s” Foundation (support of small enterprises)

Indicators of scientific excellence:

- Papers in peer-reviewed international journals;
 - Patents.
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Scientific production

Under *11%* of all Russian researchers in RAS:

- *57%* of all papers of Russian researchers in peer-reviewed international journals;
- *25%* of all Russian patents.

Russian Academy of Sciences:

Principal Partners in European Countries

Country	Agreements
France	Centre National de la Recherche Scientifique; Institut National de la Recherche Agronomique; French Academy of Sciences; L'École des hautes études en sciences sociales; Maison des science de l'homme; Universities Bordeaux I and Paris 6
Germany	Max Planck Society, Deutsche Forschung Gemeinschaft, Berlin-Brandenburg Academy of Sciences; Helmholtz Society, German Academic Exchange Service
Italy	National Research Council, Accademia Nazionale dei Lincei, "Alessandro Volta" Centre for Scientific Culture, National Institute of Nuclear Physics, Consiglio Nazionale delle Ricerche
UK	The Royal Society
Czech Republic	The Academy of Sciences of the Czech Republic
Hungary	The Academy of Sciences
Norway	University of Oslo, Bergen University
Spain	Spanish High Council for Scientific Research, Madrid Polytechnic University
Sweden	Royal Academy of Sciences, Royal Swedish Academy of Letters, History and Antiquities
Switzerland	World Agency for Planetary Monitoring and Earthquake Risk Reduction



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Major challenges for world society and science in the 21st century:
Climate, energy, food, pure water, human health, space flights, terrorism



Internationalization and globalization of science :
Cooperation instead of competition – pooling of international facilities



International megaprojects :

- ✓ *Human genome project;*
- ✓ *Large hadron collider;*
- ✓ *International space station, etc.*

International Cooperation as a Main Tool for Internationalization and Globalization of Science

- ❖ Bilateral and multilateral international projects (programs);
- ❖ Joint international laboratories;
- ❖ International scientific networks;
- ❖ Technical centers – “platforms”;
- ❖ Mobility of scientists – “brain circulation”

➔ ***Exchange of novel ideas and technologies***



Russian Academy of Sciences:
Department for Multilateral Scientific Cooperation with European Countries

What should be done to strengthen international cooperation of the Russian Academy of Sciences ?

It would be reasonable:

- To promote a creation of international laboratories and networks;
- To strengthen cooperation with the European Union under FP and to develop a complementary system for the multilateral cooperation with European countries (*Era.Net.RUS*);
- To use the Russian targeted programs for support of the international projects under competition;
- To extend the bilateral programs of training of PhD students under co-supervision;
- To create European scientific and technical centers in Russia with focus on innovations;
- To slow down the brain-drain and to promote brain-gain by using the opportunities of different Russian and international foundations and programs (*RFBR, Mobility-FP, etc.*);
- To develop a network of the Russian representatives in European national and international scientific organizations.

Thanks for your attention

A nighttime photograph of a cityscape featuring a large, illuminated bridge spanning a body of water. In the background, a tall, white building with a golden, illuminated top section stands out against the dark sky. The bridge has a greenish-blue arch and is lit with warm lights. The water reflects the lights from the bridge and buildings.

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