



**Strengthening EU-Russia Science
and Technology cooperation and EU access
to Russian National Funding Programmes**

ACCESSRU

**“Russian research and innovation programmes:
Access opportunities and entry channels”**

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AccessRu Project identity card

Consortium



- FP7 project
- CAPACITIES – FP7-INCO-2009-5
- Start: 01/10/2009
- Duration: 30 months
- Target countries: EU Member States and Associated Countries, Russia
- Target groups: EU, AC and RU research organisations, NCPs, ETP, NoEs, R&D companies, policy makers, relevant projects

The overall aim of the ACCESSRU project is facilitate access to the European researchers to the Russian research and innovation programmes.

Aeronautics : Russian ingredients (forces) for the cooperation

Political support and funding

- Russian national research- and industry-oriented programs
- Russian priority area for the cooperation, namely with European Union:
 - EU-RU S&T Cooperation Agreement (renewal in 2009)
 - EU-RU Working group (4th meeting in Oct 2009)
 - EU-RU single research and development area :
 - ✓ novel aircrafts development
 - ✓ enhancing the flight safety
 - ✓ reducing the environmental impact
- Russian Aviation Mobility Technology Platform (Memorandum signed in 2010)
- Co-ordinated call in 2010 under FP7 (4 mIn € of RF contribution, Russian paying thier nationals)

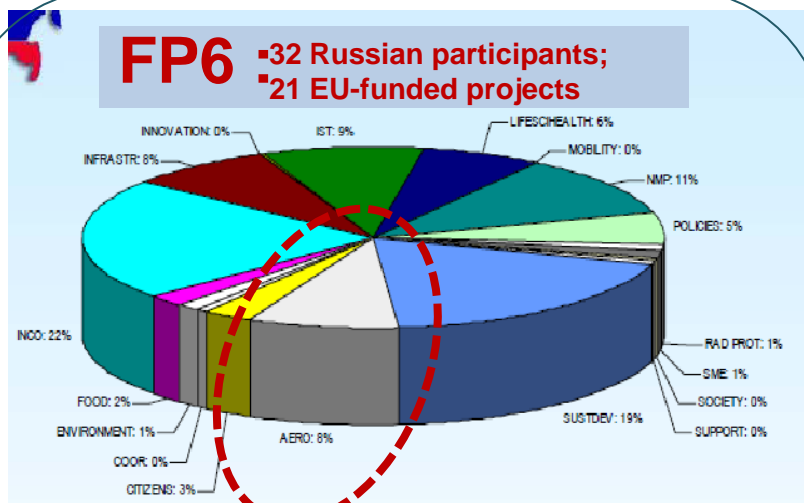
Word-class research excellence

- **CIAM**
The Central Institute of Aviation Motors - RU research establishment engaged in the comprehensive study and development of aero-engines. Activities range from investigation of basic physical processes to participation with industrial organisations in the manufacture, upgrading and certification of new engines.
 - **GosNIIAS**
The State Aviation Systems Research Institute develops integrated avionics and flight and navigation systems for military and commercial aircraft, including helicopters.
 - **TsAGI**
The Central Aerohydrodynamic Institute (founded in 1918 by N. E. Zhukovsky) - one of the largest scientific research centres in the world, combining basic studies, applied research, structural design, pilot production and testing.
 - **VIAM**
The Institute of Aviation Materials, founded in 1932, carries out fundamental and applied research in a variety of materials-related areas. VIAM has negotiated dozens of contracts with leading non-Russian companies.
- + 102 research centers



- **103 industrial companies**
- **Total jobs : 411 000**
- **Benefice of sector in 2010: 12.6 mld €**

AERONAUTIC: participation of RU researchers in FP projects



Major success stories :

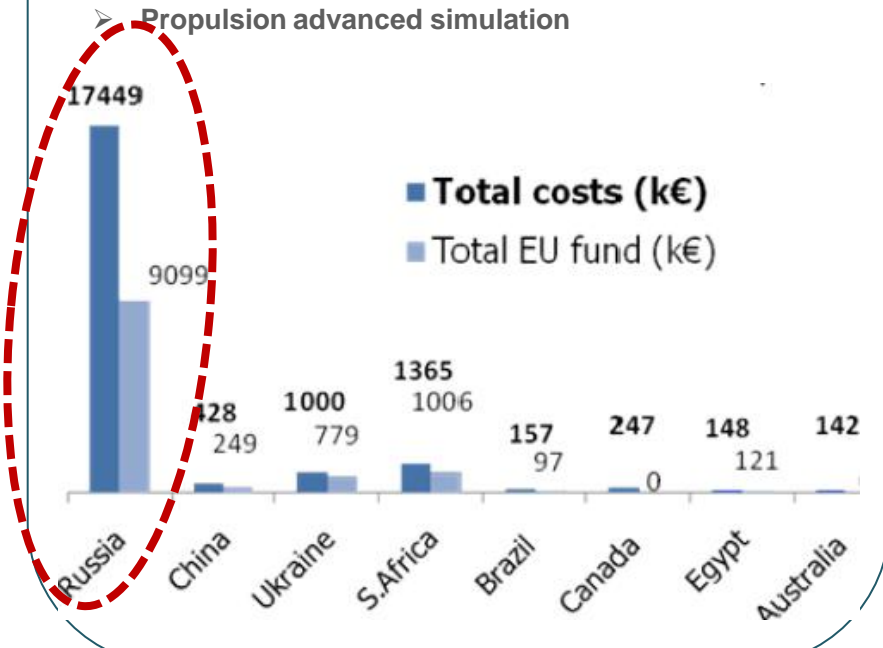
VITAL project, developing new aircraft engine technologies that reduce noise, weight, fuel consumption and CO₂ emissions;
Under the VITAL project, Techspace Aero developed a new booster featuring innovative, aerodynamically superior, low-pressure compressors that are lighter and more compact. The module was tested by Russia's CIAM (Central Institute of Aviation Motors) in Moscow.

DREAM, 'valiDation of Radical Engine Architecture systems'

FP7: 48 projects with RU participation*

5 topics competing :

- Novel composite geodesic structures
- High aspect ratio and High-lift aerodynamics
- Maintenance and safety
- Plasma actuators for engine noise control
- Propulsion advanced simulation



However, in other chapters of the list of Federal targeted programmes there are programmes which can be referred to Science and technology (list is non exaus

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ACCESS OPPORTUNITIES

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**Russian
Federal
Programs
(FTP)**

RU funding

**Bilateral
programmes**

Co- funding

Existing
initiatives

New
initiatives

**New
Russian
Initiatives**

RU funding



ACCESS OPPORTUNITIES (1) – RU Federal Target Programs

FTP* identity card:

- key vector of the Russian S&T and innovation policy;
- complex of scientific, research, experimental-design, production, social-economic, organisational and other activities;
- open for EU researchers;
- access via tenders ;
- key selection criteria:
 - functional characteristics (consumer properties) and qualitative characteristics of commodities, works and services;
 - price

<i>Key R&D oriented targeted programmes</i>	<i>Period</i>
R&D in Priority Fields of the S&T Complex of Russia	2007-2012
Nanoindustry Infrastructure Development in Russian Federation	2008-2010
Scientific and Scientific-Pedagogical Personnel of Innovative Russia	2009-2013
National Technological Base	2007-2011
Development of Electronic Component Base and Radio Electronics	2008-2015

FTP “Development of Russian civil aviation for 2002-2010 and through 2015”

Exemple of project - « Aircraft -2020 » :

- Budget for marketing/ feasibility studies 5.5 mln € (3 mln € in 2010)
- Participation open for foreign experts

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Scientific and Scientific-Pedagogical Personnel of Innovative Russia for the period 2009-2013

Development of Electronic Component Base and Radio Electronics 2008-2015

National Technological Base 2007-2011

Electronic Russia 2002-2010

R&D in Priority Fields of the S&T Complex of Russia 2007-2012

Nanoindustry Infrastructure Development in Russian Federation 2008-2010

Aeronautics
transversial

State customer

Rosobrazovanie
Rosnauka

Rosobrazovanie
Rosnauka
Roskosmos.
Rosatom

RAN
RAN Siberian Branch
Rosnauka
Rosobrazovanie
Roskosmos
Rosatom.

Ministry of Economic Development
Federal Information Technology Agency
Rosobrazovanie
Federal Protective service

Rosobrazovanie
Rosnauka
Moscow State University

Rosatom.
Ministry of Industry and trade
Roskosmos
Rostehregulirovanie
Rosobrazovanie
Rosnauka
FSTEC

State coordinator

Ministry of Telecom and Mass Communications

Ministry of Industry and Trade

Ministry of Industry and Trade

Ministry of Education and Science of the Russian Federation

Ministry of Telecom and Mass Communications

Ministry of Telecom and Mass Communication



ACCESS OPPORTUNITIES (2) – Bilateral Initiatives

Existing initiatives

- **Calls for proposals for joint Russian-French projects**
FASIE - OSEO Innovation (France)
- **Calls for proposals for joint Russian-German projects**
FASIE - International Bureau (IB) of Federal Ministry of Education, Science, Research and Technologies of Germany (Germany)
- **Joint research projects based on competitive selection events**
RFBR - EU research organizations
- **Bilateral programmes in the framework of FTP/ R&D in Priority Fields of the S&T Complex of Russia for 2007-2012**
(FR7 coordinated calls)

*Ministry of Education and Science –
European Commission*

New initiatives

- **ERA-NET**
Two ERA.Net RUS calls launched in February 2011:
Pilot Joint Call in Innovation Projects;
Pilot Joint Call in Collaborative S&T Projects
- **Calls for proposals for joint French-Russian projects of competitiveness clusters - INTERPOLE**

Co-ordinated call in aeronautic - FP7 - AERONAUTICS and AIR TRANSPORT (AAT) - 2010 - RTD-RUSSIA

- **Publication Date: 30 July 2009**
- **Budget: € 4 000 000 (EC) + € 4 000 000 (RU)**

Outcome:

8 proposals submitted, 3 projects selected :

Name of project – research topic	EU Contribution (€)	No. Of partners
ORINOCO - cOoperation with Russia in the field of advanced engine NOise COntrol based on plasma actuators	1.35 million euro	12 (6 of whom are Russian)
SVETLANA - Safety (and maintenance) improvEment Through automated fLight data ANALysis	1.3 million euro	6 (3 of whom are Russian)
ALASCA - Advanced Lattice Structures for Composite Airframes	1.35 million euro	11 (6 of whom are Russian)

ERA-NET RUS – Pilot Joint call

Open: 15 February 2011 –

Close: 15 April 2011

Condition:

- **Joint application**
- **1 RU SME + 2 EU/AC organisations (Germany, Greece, Israel, Switzerland, Turkey) - other EU/AC countries welcome to participate without funding**
- **Types of legal entities depends upon each EU country rules**
- **Projects assigned to innovative technologies of high utilisation potential and of particular importance for EU/AC & Russia**
- **150 k € per project**
- **2 years project duration**

ACCESS OPPORTUNITIES (3) – New Russian Initiatives

- **Attracting Leading Scientists to Russian Universities**

Ministry of Education and Science

- **Research led by invited former Soviet leading scientists**

FTP, Ministry of Education & Science

**100% Russian
funding**

« Leading scientists » initiative

- The RF contribution:
~€ 75,000,000 (2010)
- Customer : Ministry of Education and Science
- Project duration : 2-3 years
- Main goal - creation of a research laboratory of international level in the university
- Access scheme: competitive grant process ~€ 3,750 000 per project
- Being present at the relevant university for not less than **four months** in a calendar year





ENTRY CHANNELS FOR EU RESEARCH ORGANISATIONS

ENTRY CHANNELS - Russian programmes most suitable for access

<i>Scheme</i>	<i>Funding</i>	<i>Simplicity of access for EU applicant</i>	<i>Rules of participation</i>	<i>Level of Restrictions</i>
Joint Russian-French and Russian-German projects under Bilateral agreements of the FASIE	Co-funding	++	Simple	Restricted to the participants from France and Germany
Joint fundamental research project under Bilateral programmes of the RFBR	Parity-funding / co-funding	+	Simple	Restricted to the participants from the countries covered by the bilateral agreements
Federal target programme (FTP) – direct application	Budget funding from RU side	--	Complex	Very High
Sub-contracting under FTP	Customer funding	+	Simple	High
Leading Scientists	Budget funding from RU side	++	Simple	Moderate Person-based, no involving of the EU organisation
Sub-contracting in industrial research	Customer funding	-	Simple	Moderate

ENTRY CHANNELS per scheme

<i>Scheme</i>	<i>Entry channel</i>
Joint Russian-French and Russian-German projects under Bilateral agreements of the FASIE	Russian SME partner
Joint fundamental research project under Bilateral programmes of the RFBR	Russian scientific partner
Federal target programme	<ul style="list-style-type: none"> ✓ Special calls addressing international cooperation ; ✓ Coordinated calls under FP7 in restricted thematic areas ; ✓ Status of resident in Russia ✓ Sub-contracting
Bilateral programs	Partner Russian University/Institute
Leading Scientists	Partner Russian University/Institute accredited by the Russian Ministry of education
Sub-contract	Opening the representative office in Russia

ENTRY CHANNELS summary

- **Participate in Russian Tenders :**
 - *As Leading contractor (homologue of FP7 Coordinator)*
 - *As Sub-contractors (homologue of FP7 Consortium member)*

- **Participate in bilateral calls (need a Russian partner)**
- **Participate as individual scientist in “leading scientist initiative” (need a Russian partner – research organisation)**
- **Participate as expert in bilateral project evaluation /FTP feasibility studies**
- **Join Russian Aviation Mobility Technology Platform**



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For more information: www.access-ru.eu



**Project report (available on the web-site D2.2)
“Mapping of access opportunities to Russian research
and innovation programmes for European researchers
and organisations”**