



RUSNANO
Russian Corporation of Nanotechnologies

Leonid Gozman,
Humanitarian Projects Director

MODERNIZATION: Do we have a chance?

Las Vegas, USA
October 15, 2011



- Do we have a chance for modernization?
- What is RUSNANO?
- RUSNANO and the diaspora: why do we need each other?

Modernization: do we have a chance?

Russian Economy Indicators: Historical Parallels

1909

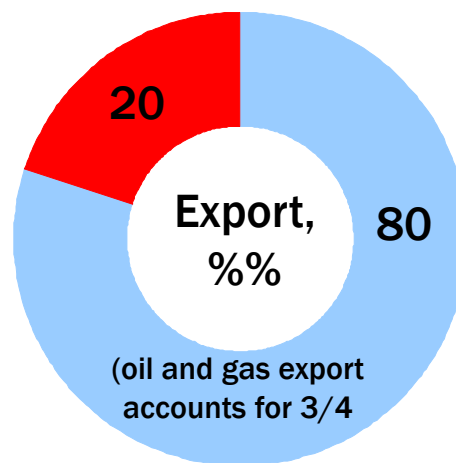


Source: Ministry of Finance, Russian Empire;
Statistics Service of Russia

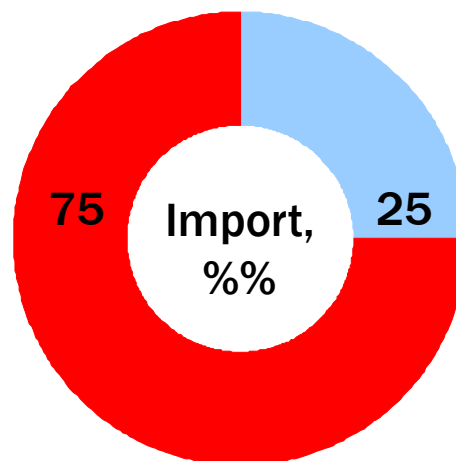
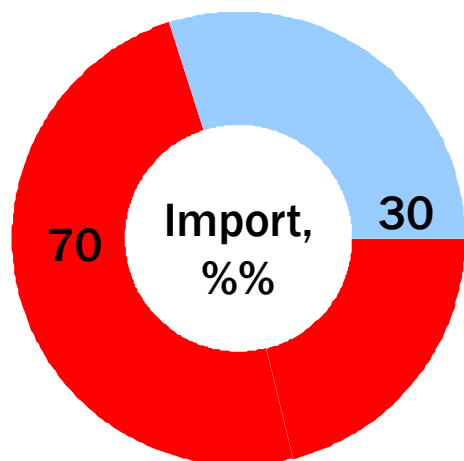
Just like 100 years ago,
Russian economy
still largely depends on:

raw materials export

2009



finished goods import
(incl. high tech)



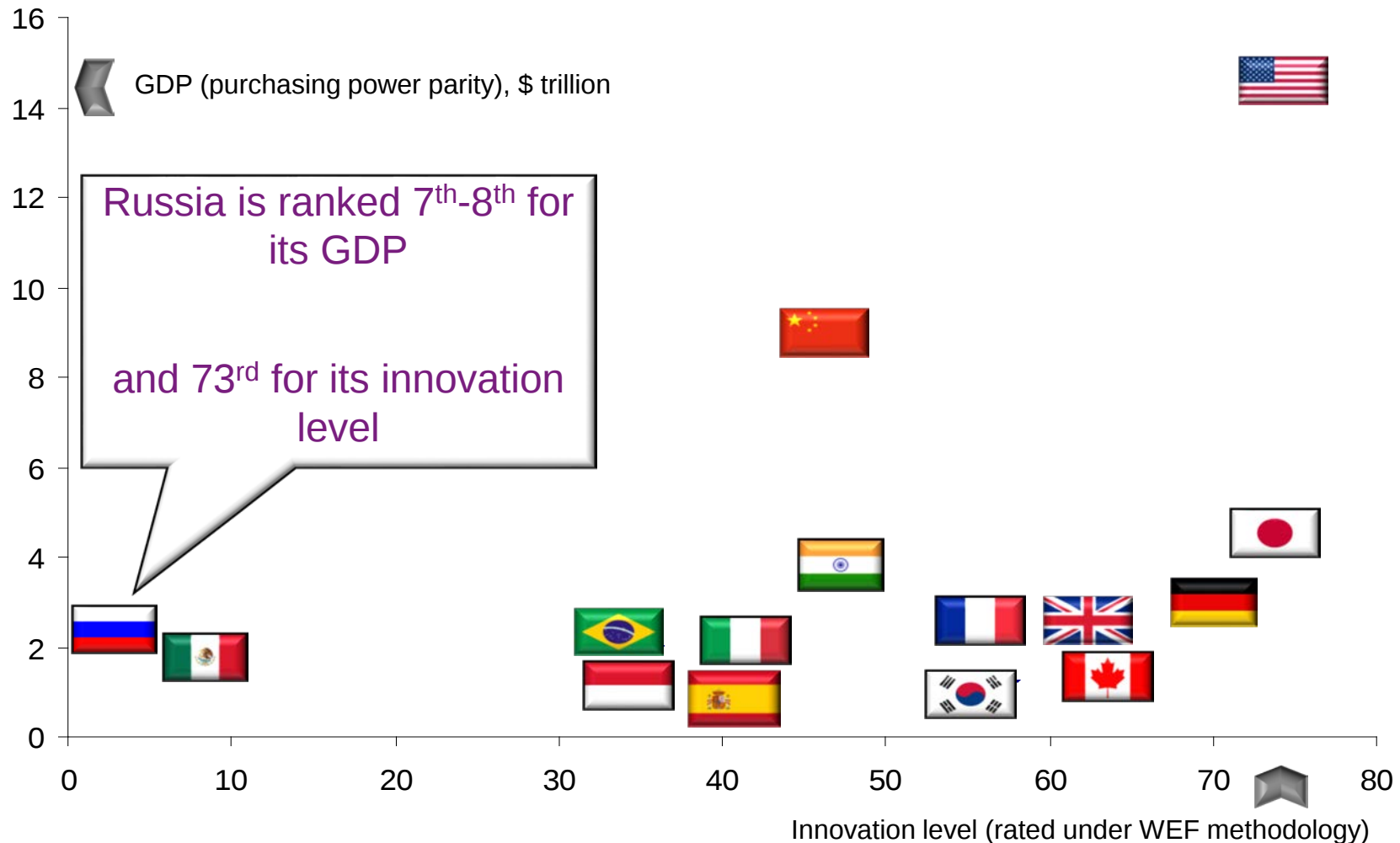
Raw materials and
semi-products (incl. food)

Finished goods

Modernization: do we have a chance?

Russian Economy: Gap in innovations

Sources: World Economic Forum – The Global Competitiveness Report 2009-2010; IMF data

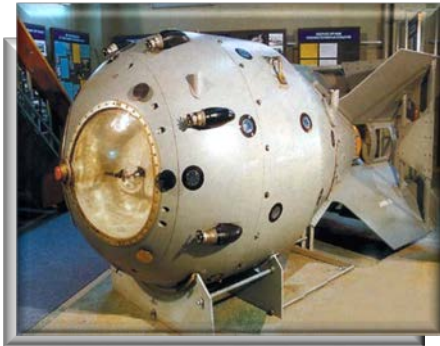


Modernization: do we have a chance?

Innovation-driven economy in the USSR

Major innovation projects in the USSR from 1940 to 1960:

The Nuclear Project



*First Soviet nuclear bomb
RDS-1 (1949)*

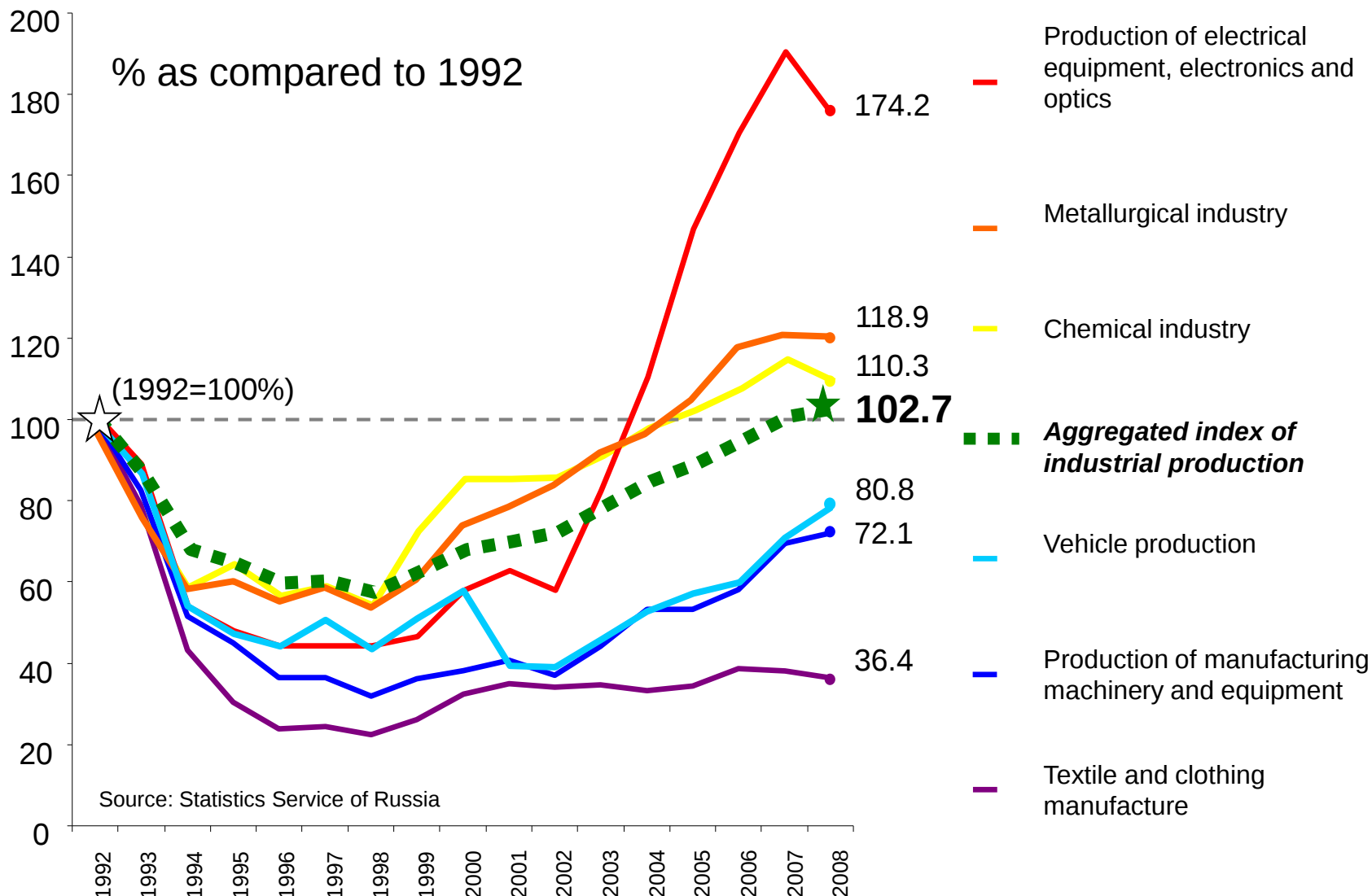
The Space Program



*Vostok 1 spacecraft
(1961)*

Modernization: do we have a chance?

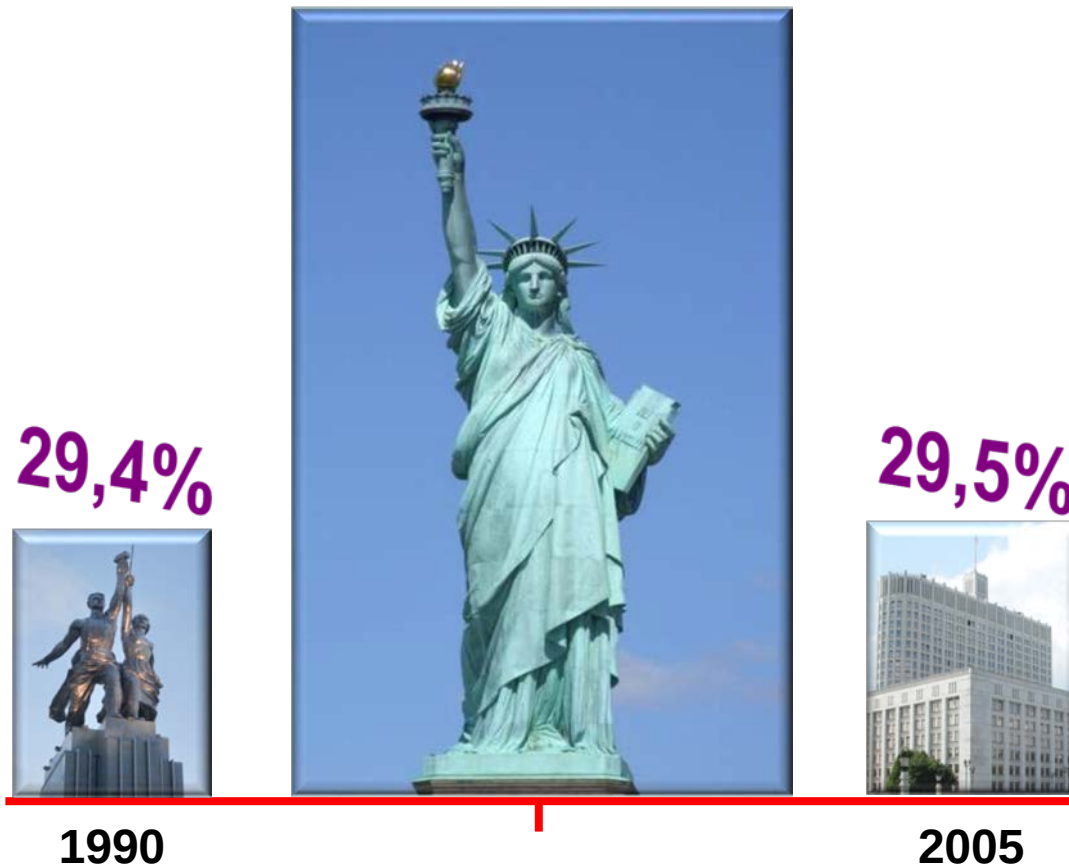
Russian economy: achievements and drawbacks



Modernization: do we have a chance?

Labor productivity in Russia: no decline, no rise

Output per one employed person in the USSR and the post-soviet Russia
adjusted for the purchasing power parity (in percentage to the similar indicator in the US)



Sources: Cross-Border Comparison of GDP in Europe in 1990 (the UN ECE, Geneva, 1994);
Cross-Border GDP Comparison, Global Round, 2005

Modernization: do we have a chance?

Problems

- Corruption
- Infrastructure
- Growing authoritarianism, the monopoly of power
- Capital outflow
- Emigration
- Low national self-esteem

Modernization is the only solution

Modernization: do we have a chance?

Resources for modernization

- Political will of the current administration
- Public awareness of the problem
- Skilled labor force
- The diaspora
- Demand for high-tech
- Demand for labor in high-tech production

Modernization: do we have a chance?

Actions

- Legislation
- Removing existing hurdles
- Better conditions for innovators
- Education
- Political reforms

modernization may be started in current political conditions

but

in these conditions it can't be completed

What is RUSNANO?

RUSNANO: Brief Overview

- ❖ Founded in 2007
- ❖ Mission: to implement the state policy in the field of nanotechnologies
- ❖ Tasks:
 - commercialization of nanotech industry projects and innovations
 - production volume of Russian nano-enabled products by 2015 –
~ \$30 bln per year
- ❖ Areas of financing:
 - ✓ fabrication of nano-enabled products and materials
 - ✓ foresight and road maps, standardization, certification, safety in nanotech industry
 - ✓ education, popularization

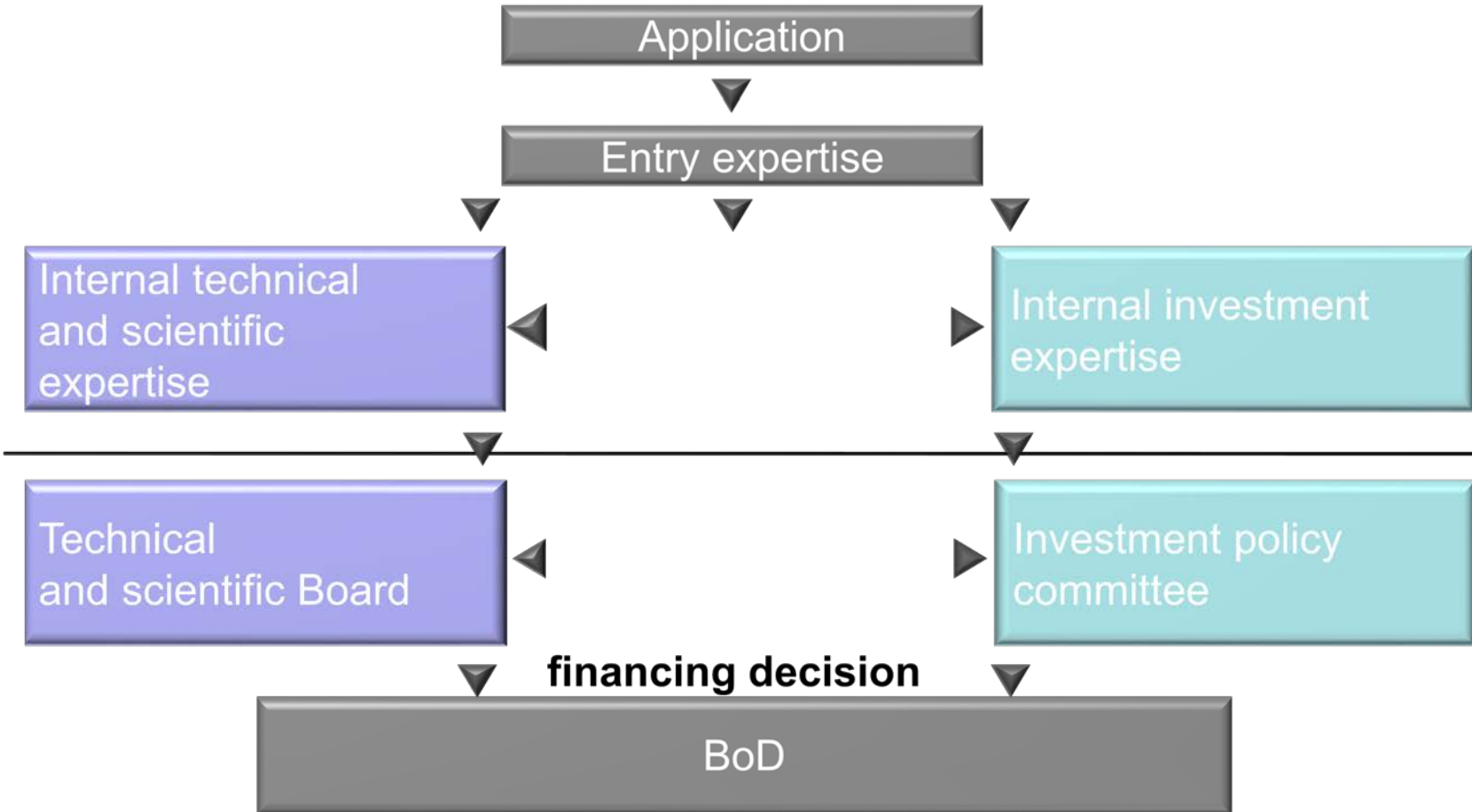
RUSNANO – bridge between science and business



RUSNANO



Investment Project Selection Mechanism



What is RUSNANO?

RUSNANO: Brief Overview

Applications:

Total **2266**

Foreign applicants (from 35 countries): **306**

Out of which, led by or with participation of former Russian residents
(from 23 countries): **111**

Manufacturing:

6 projects started manufacturing in 2010-2011

13 manufacturing facilities were planned for 2011

RUSNANO and the diaspora: why do we need each other?

Potential of the Russian scientific diaspora

Facts and estimations

Research employees and engineers

Russia
late 1980's
~ 1 200 000 people



Russia
late 2000's
~ 400 000 people

Reduction in labor between 1990 and 2000: ~ 800 000 people

including ~100 000 people
employed in their respective professional fields abroad



**The Russian scientific and engineering diaspora
amounts to around 1/4**

of the current number of research employees and engineers
working in Russia

Sources: World Bank; Higher School of Economics (Moscow)

RUSNANO and the diaspora: why do we need each other?

Why do we need you

- There are many of you
- You understand Russia
- You speak Russian
- You have a unique experience
- You know that success is possible

RUSNANO and the diaspora: why do we need each other?

What do we expect from you?

- Implement your projects in Russia
- Expert reviews
 - Scientific and technical project reviews
 - Assessments of potential partners
 - Marketing reviews
- Participation as investors, co-investors, and consultants in the investment attraction process
- Participation in the projects undertaken by the Corporation as project managers
- Participation in joint events
- Participation in the studies and analysis of the global innovative practices with the view of applying them in Russia

RUSNANO and the diaspora: why do we need each other?

Why you need us

- In Russia you have an obvious competitive advantage as compared to foreigners who come to Russia for work
- Russia is a potentially large marketplace
- You care for Russia
- You have personal ties to Russia



Modernization: moral aspects

Demand for democracy

Raising the national self-esteem

WELCOME

www.rusnano.com

Leonid Gozman, Humanitarian Projects Director

Gozman@rusnano.com

tel.: + 7 985 999 50 94

Radion Kim, Chief Analyst

Radion.Kim@rusnano.com

tel.: +7 985 760 48 94

Julia Lisitsyna, Section Head for Humanitarian Projects

jml@rusnano.com

Tel.: + 7 985 970 15 07

Tel.: + 7 495 988 53 16