

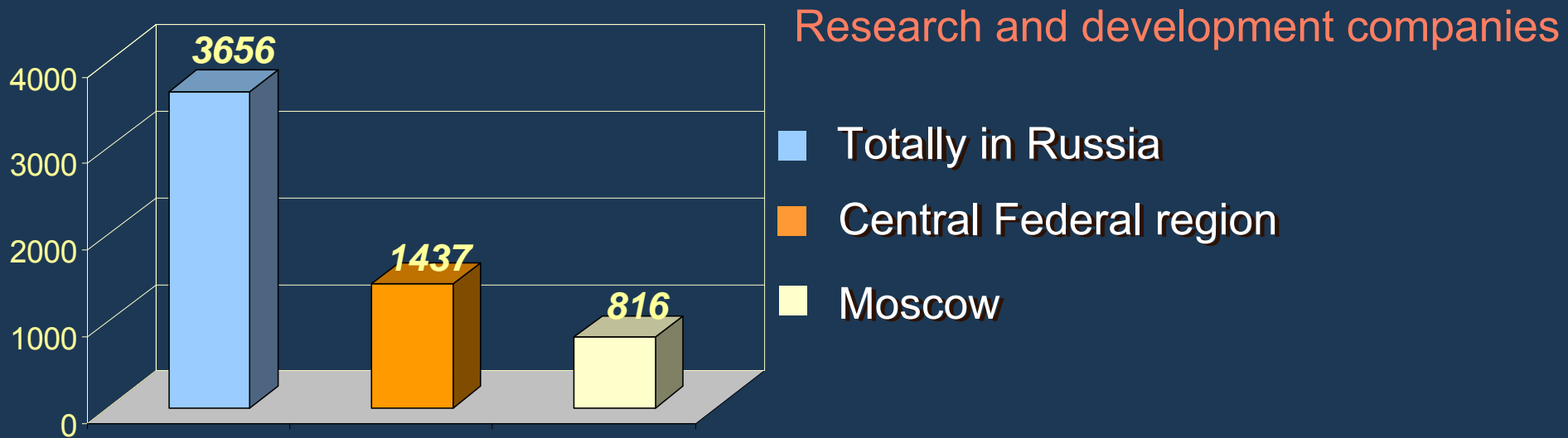


## The 1-st Russian-Japanese Investment Forum

*Development of scientific, technical and innovative activity in Moscow*

*Vladimir G. Sister,  
Corresponding member of Russian Academy of  
Science,  
JSC "MKNT" Chairman of Board,*

## SCIENTIFIC INSTITUTIONS AND PERSONNEL

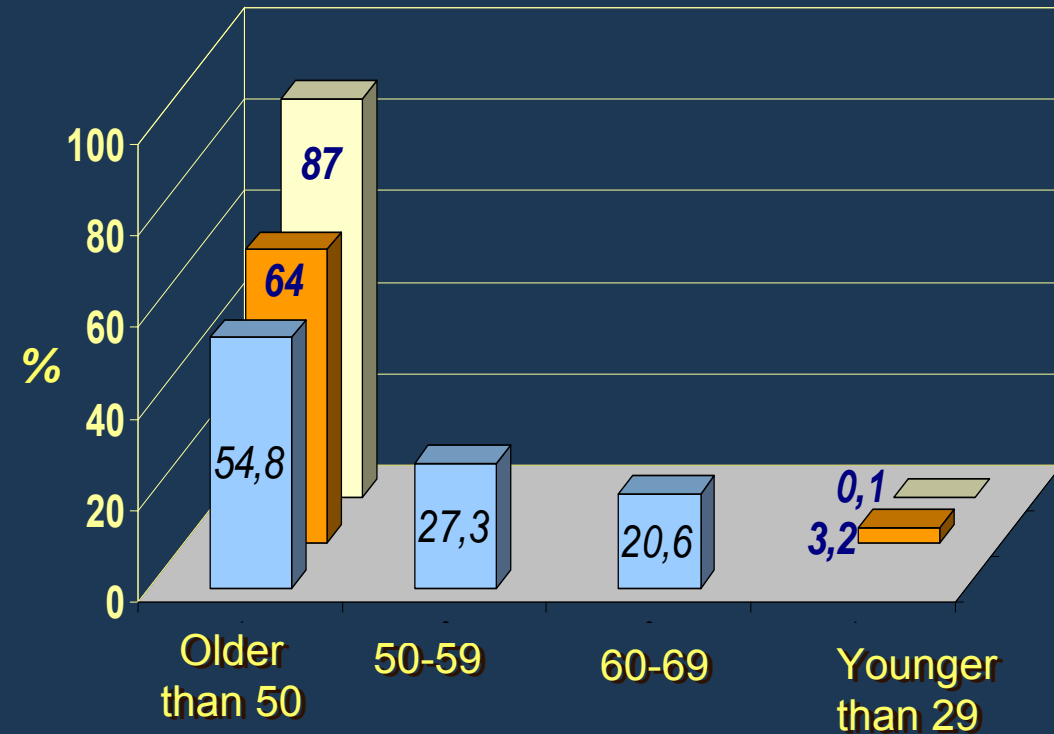


**2004**

Number of the personnel involved in research and development in Moscow is **260 thousand people**

About **30%** of all research assistants of Russia

# SCIENTIFIC INSTITUTIONS AND PERSONNEL



- Total
- Candidates of science
- Doctors of Science

**scientific manpower is prepared to provide constant inflow of youth to scientific sphere in Moscow**

In Moscow

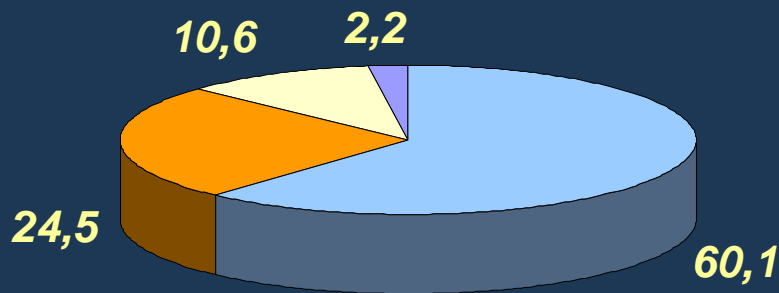
**1 mln.** students

about **50 thousand** post-graduate students study

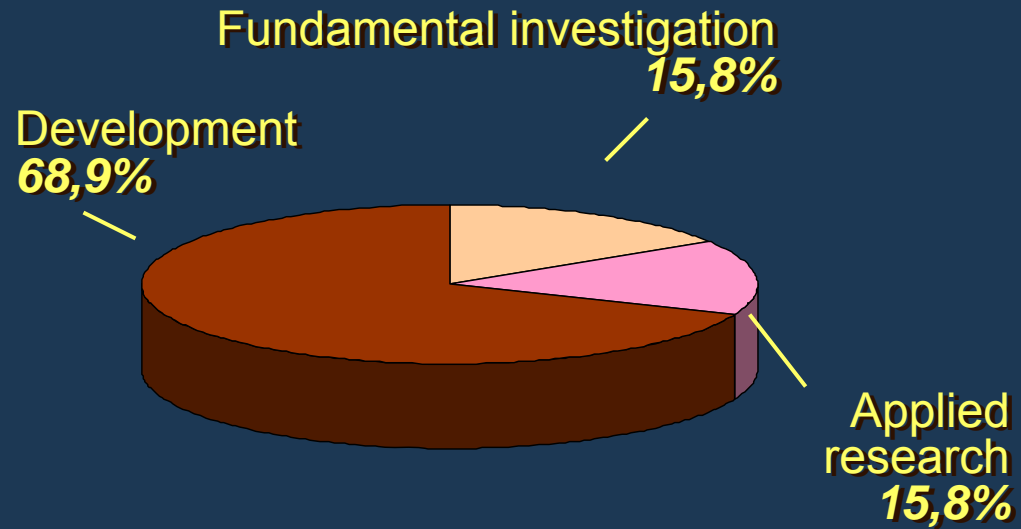
**System of grants and bonuses** paid by the Government of Moscow to scientists is being developed

Structure of funding sources of Moscow scientific institutions (%)

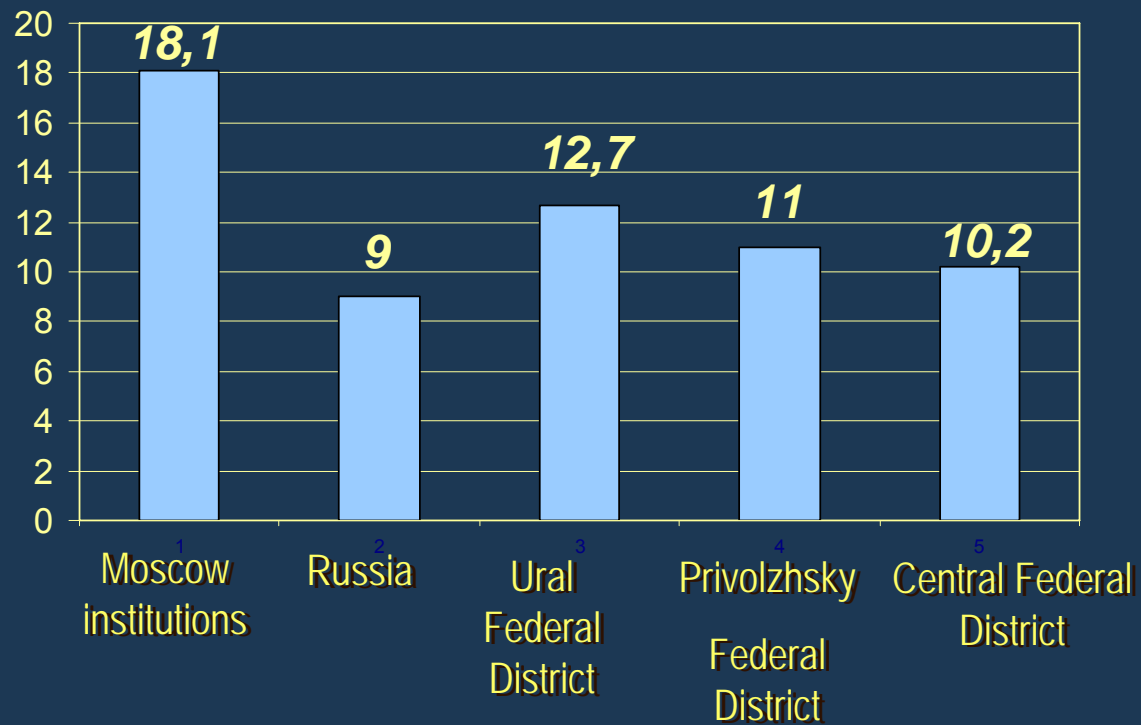
Structure of costs to science in Moscow



- State sector
- Entrepreneurial sector



## Average percent of innovative activity



# NUMBER OF INNOVATION ACTIVE INSTITUTIONS

**2004**

Russia - **2532**

Moscow – **149**

In comparison with **2000** the number of innovative-active institutions has increased by **3,7 times**

## Moscow

### 9 technical parks

MGU, MIFI, MGTU, MEI, Kurchatov institute, MATI, MIET, Gubkin institute, Russian-Chinese technical base “Druzhba”

### 16 innovation-technological centers

Centers of technology transfer and business-incubators

”PromCity Moscow” project is being implemented

Technological zones are being formed

## *Moscow*

*2005*

*60%* of all the patents for inventions and utility models granted in Russia

*2001-2006*

*annually*

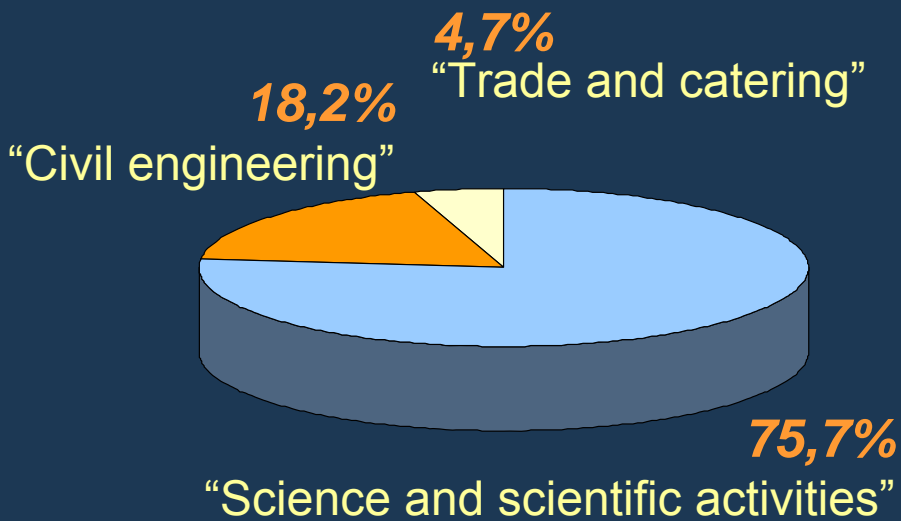
about *6000* inventions

*2000* utility models

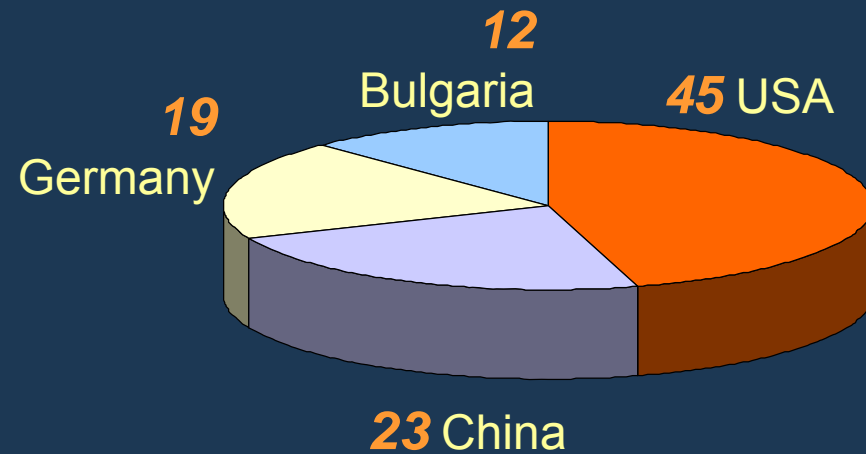


## Technological Commercial Activity

Structure of signed contracts



Countries – participants of contracts



More than **560** scientific institutions including **120** institutions of Russian Academy of science and institutions of higher education are involved in implementation of **Program of science and technology development for 2002-2005**

More than **130** kinds of technical equipment for a sum of **2** billions rubles were formed

More than **36** thousand of working places are kept and set up

# EXAMPLES OF ADVANCED TECHNOLOGY PROJECTS

Social sphere

## ✓ Medicine "Phosphogliv",

substituting medicine "Essentiale",

its production will save for Moscow during the year – about **3 mln. USD**,

in Russian this number will be **10 times more**

## Therapeutic agent "Coletex"

Taking it up decreases a course of medical treatment in hospital to **5** days

**Saving for every patient is to 5 thousand rubles a year**

this product for a sum more than **18 mln. rubles** has been submitted for **3** years to city hospital

## Pacemakers (Electric cardiological stimulators)

Production is arranged on the basis of **Scientific centre of cardio-vascular surgery named after A. Bakulev**

Cost is **20%** lower than analogues

# EXAMPLES OF ADVANCED TECHNOLOGY PROJECTS

## Alternative power engineering

**30 cars Zil-5301 “Bychok”**  
using dimethyl ether as fuel are  
operated



dimethyl ether is used as:

1. **motor fuel** for full replacement of diesel oil
2. **10-40 %** of additive to diesel oil;
3. **refrigeration fluid**

car exhaust meets the requirements of  
**EURO-3** standard

**Car starts easily**

at a temperature of minus **20-25°C**

cruising range is **600** km at one refueling

The following is planned up to **2008**

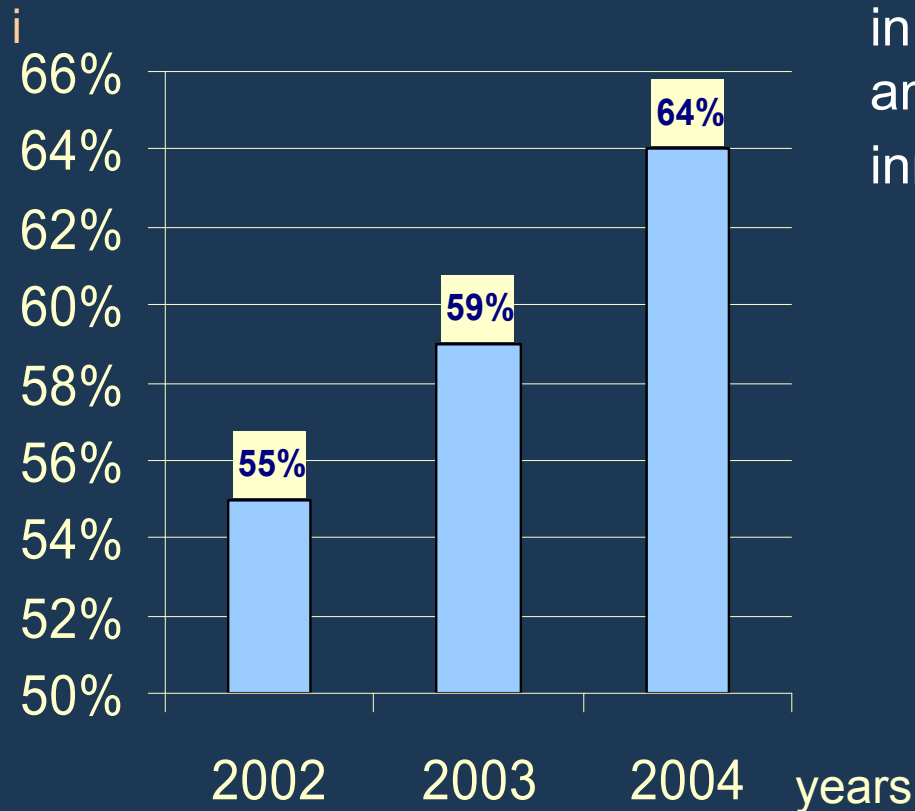
**to increase fleet of cars up to 4000 pcs.**  
dimethyl ether consumption will be **160**  
**thous. tons a year**

**quantity of harmful exhaust to**  
**atmosphere will decrease in 4 times**

- creation of wind-driven power complexes "Zhavoronok"
- development of **mobile robot technical complex** (Kurchatov institute) enabling removing mines or explosive substances and units
- development of **poison gases detection system** in metro stations (manufacturing plant is "Khimavtomatika")
- and many others

# AVERAGE PERCENT OF INNOVATION ACTIVITY

as per the Program of science and technology development for 2002-2005



in areas of health protection, housing and communal services, transport, innovation activity factor is **60-70 %**

Developments of JSC “MCST” took part and were granted awards of forums:

- International salon of innovations, scientific researches and technologies «Brussels-Eureka»
- International salon of inventions «Contest – Lepin» (France)
- International salon of inventions, new techniques and goods (Geneva)
- Moscow international «Salon of innovations and investments»

JSC «MCST» is actively participating in Moscow innovative system :

**forms incubators of inventions technical parks** on the base of higher educational institutions, MSU named after M.V. Lomonosov, and scientific institutes at RAS, public scientific centers

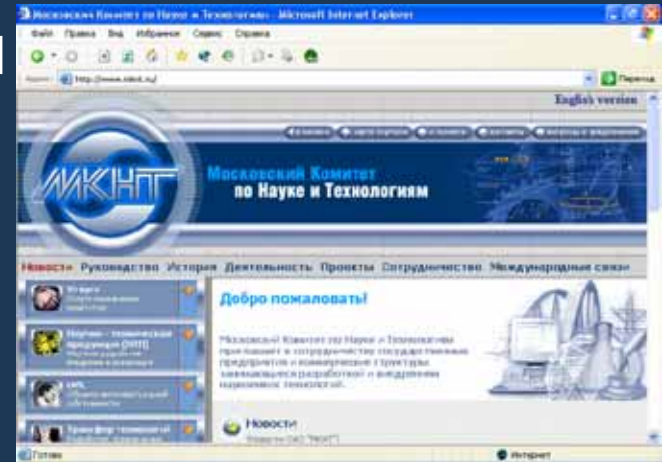
**It was created JSC «Stock exchange of high technologies»**, designed for attraction of financial resources from individuals, financial and other entities to the market of shares of innovational companies

**There was developed and now is operating the informational portal Atlas of technologies «Moscow – Bavaria»**



[www.mknt.ru](http://www.mknt.ru)

- Information about scientific and research and technology developments
- Commercial offers for investors;
- Other useful information in the area of research and technology



## Catalogue

“Investment Projects and High Technology Products”

Annual exhibition «Moscow – city of science»  
**26-28 September 2006 г.**