



**ISSEK**

Institute for Statistical Studies  
and Economics of Knowledge



NATIONAL RESEARCH  
UNIVERSITY



Research Laboratory  
for Economics  
of Innovation



Research Laboratory  
for Science  
and Technology Studies

# Introduction to HSE ISSEK

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First Vice-Rector, HSE  
Director, HSE ISSEK

**Linkages between Actors in the Innovation  
System  
Extended Workshop**

**Moscow, 13 June 2012**

# HSE: Key Facts and Figures

**Campuses: Moscow, St. Petersburg, Nizhny Novgorod, Perm**

**Faculties and Schools: 33 (incl. 22 in HSE Moscow)**

**Students: over 16,000 (45% from outside of Moscow; HSE has the largest master's enrollment in Russia)**

**Continuing education: 200 plus programs incl. MBA and DBA programs; over 12,000 students**

**Academic staff: 3,100 teachers and researchers**

**Research: 38 research centers, 11 international scientific laboratories**

**Resources: the largest library on social sciences and economics in Russia (over 550,000 items)**

**Revenues: 6,373.9 million rubles in 2010 from educational and research activities and contract implementation (around 1,260 million rubles annually)**

# Faculties and Schools, HSE-Moscow

## Economics and Management Fields of Study

- Faculty of Economics
- School of Statistics, Data Analysis and Demography
- Faculty of World Economy and International Affairs
- Faculty of Management
- School of Logistics
- Faculty of Public Administration
- International College of Economics and Finance

## Mathematics and Informatics Fields of Study

- Faculty of Business Informatics
- School of Applied Mathematics
- School of Software Engineering
- Faculty of Mathematics

## Social Sciences and Humanities Fields of Study

- Faculty of History
- Faculty of Law
- Faculty of Politics
- Faculty of Psychology
- Faculty of Philology
- Faculty of Sociology
- Faculty of Philosophy
- School of Asian Studies
- School of Cultural Studies
- Faculty of Media Communications
- School of Business and Political Journalism
- Higher School of Urban Studies
- Department of Public Policy

## *Major R&D areas:*

**Economics**

**Public administration**

**Management**

**Sociology**

**Mathematics**

**Information Technology**

**Philosophy**

**Law**

**Philology**

**Psychology**

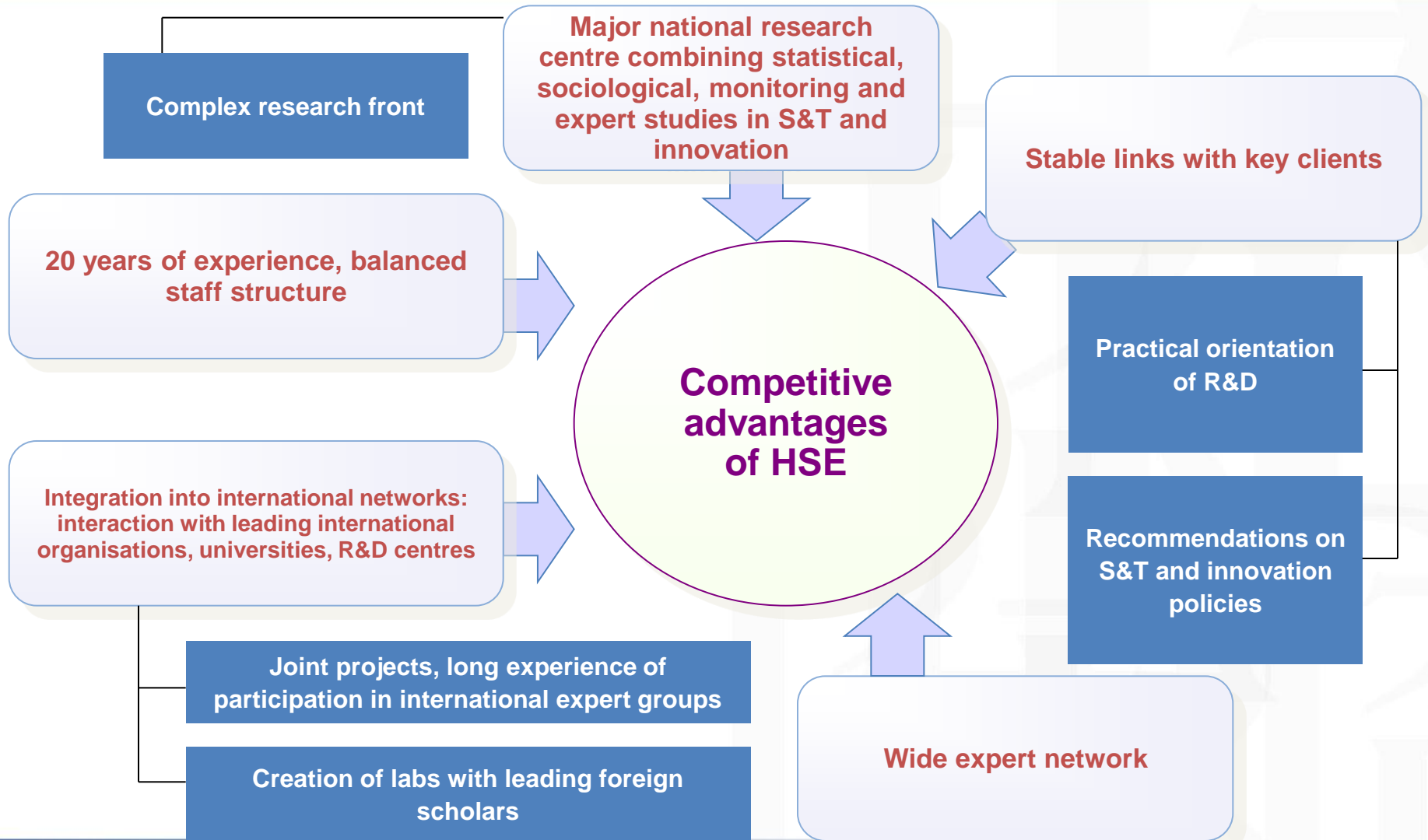
**International Affairs**

**Politics**

**Institutional reform support at  
the national level  
Contribution to domestic and  
international S&T**

**Russian studies  
International comparative  
studies  
Participation in mainstream  
S&T research**

# HSE Research (2)

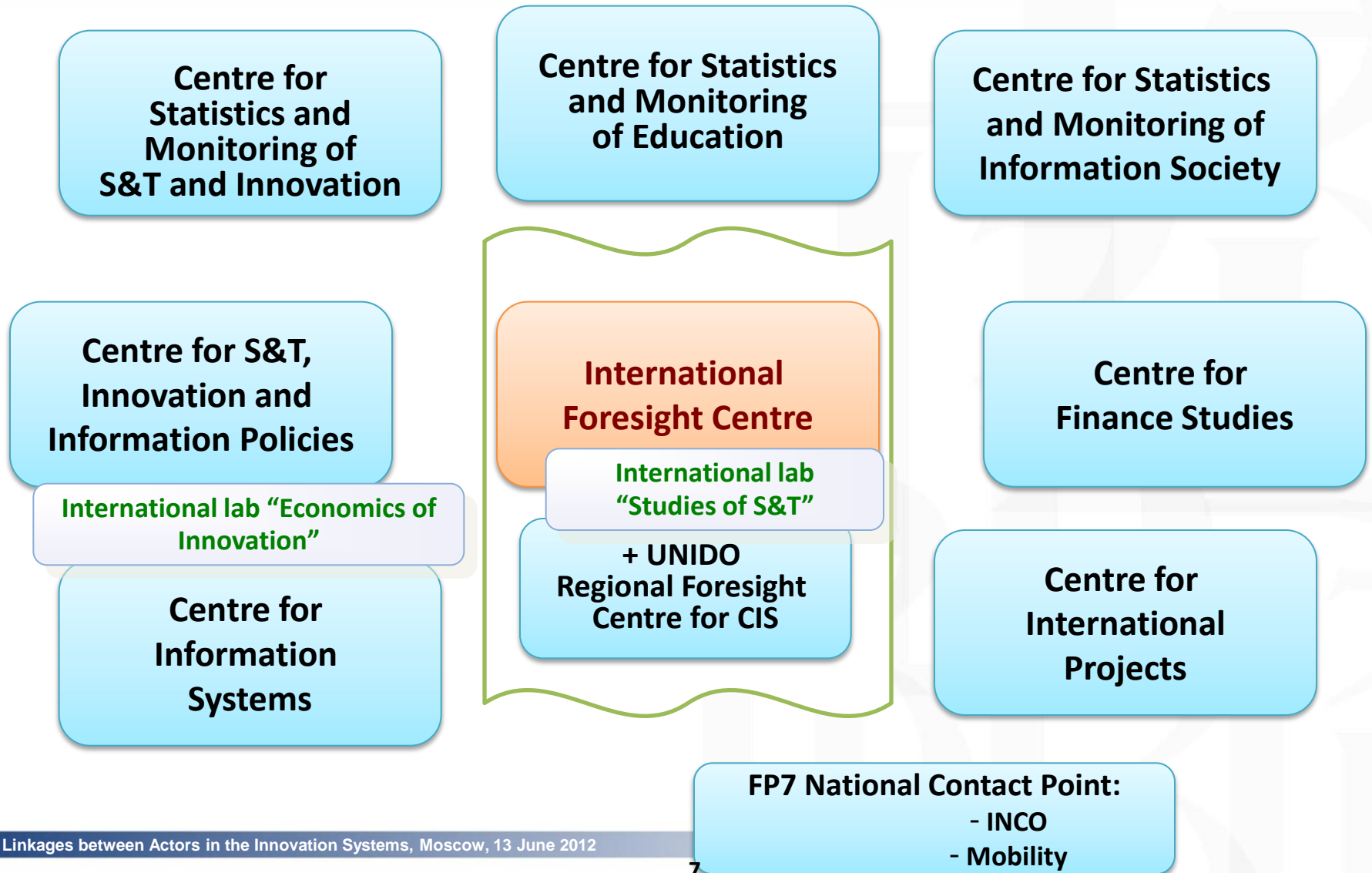


**Established in 2002**

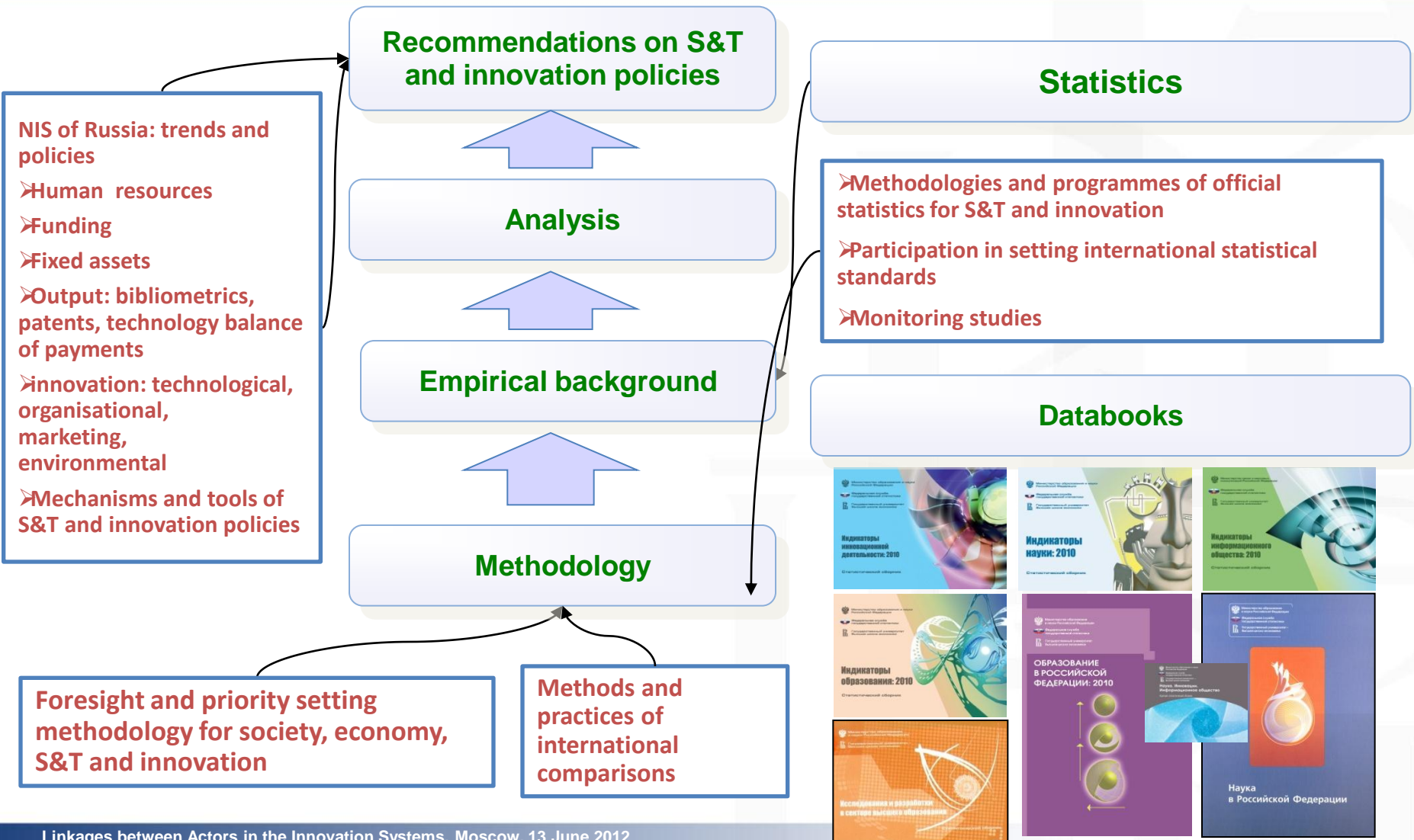
## **Objectives**

- **to develop statistics on S&T and innovation, education and training, information society in the Russian Federation**
- **to supply policy makers and general public with comprehensive up-to-date and internationally comparable data and indicators**
- **to provide analysis and forecast of trends in S&T, innovation, education, ICT and knowledge economy**
- **to develop recommendations on economic, S&T, innovation, education and ICT policies**
- **to promote international S&T co-operation**

# HSE/ISSEK Organisational Chart



# S&T and innovation studies: a complex approach





# Research labs under the leadership of prominent foreign scholars (est. in 2011)

## «Economics of Innovation» (Director - Ian Miles)

- Theoretical approaches to innovation research
- New forms of innovation: non-technological innovation, open innovation, knowledge-intensive services
- New technologies: strategic research, innovation, entrepreneurial activities
- Instruments for promotion of innovation activities, innovation impacts
- Innovation and public policies: creation of innovation-friendly environment at the national and regional levels
- Evidence based innovation policy
- Recommendations on increasing output and outcome of decision making

## «Studies of S&T» (Director - Jean Guinet)

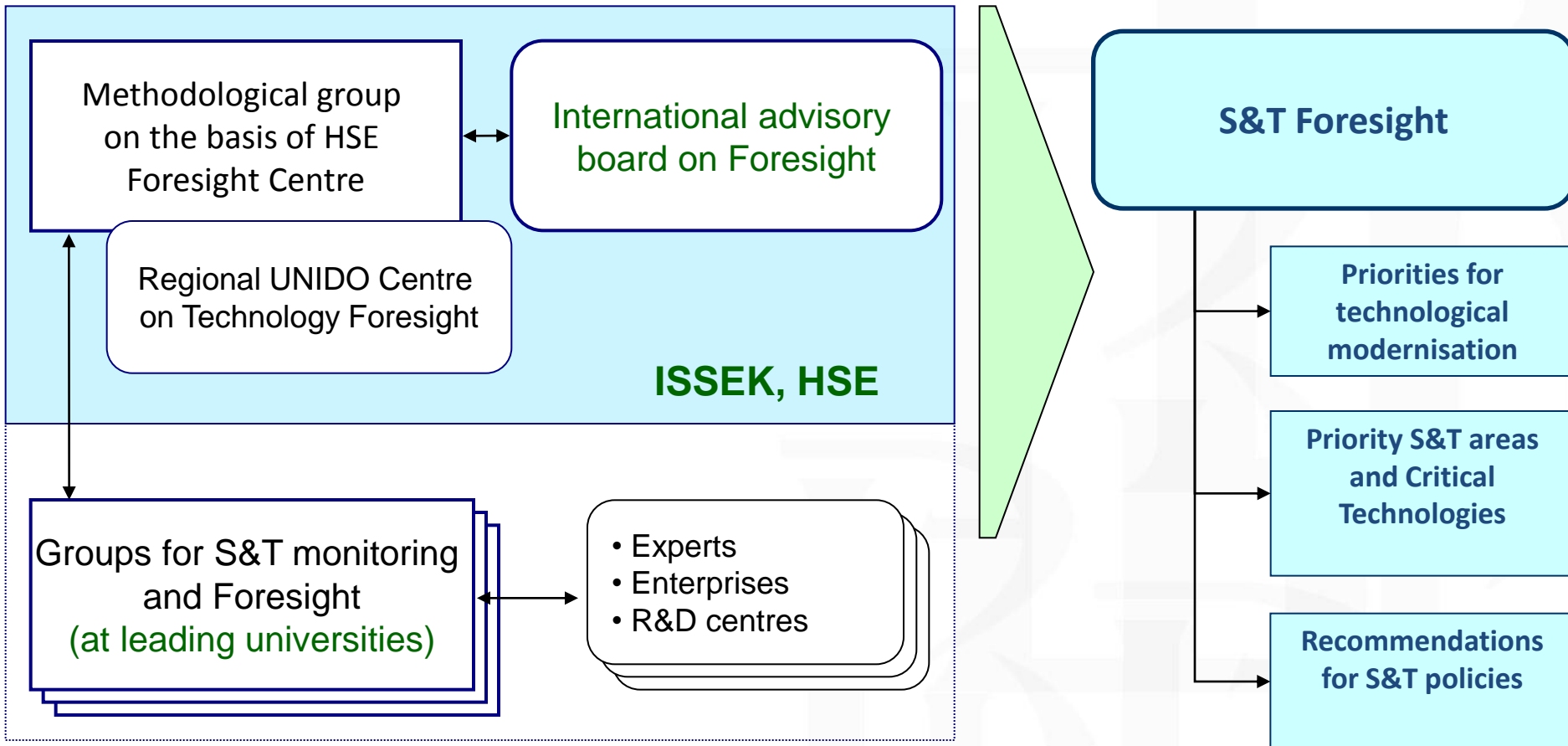
- Development of new theoretical approaches and methods of quantitative analysis of S&T
- S&T indicators
- Structural trends of development of Russian S&T vis-à-vis global trends
- Mapping of S&T, identification of innovation clusters
- Science on science policy

# S&T and innovation studies at ISSEK: major areas of research

- **S&T and innovation statistics: methodology and practices**
- **Measuring emerging/enabling/general use technologies (OECD Task Force)**
- **Models of innovative behaviour of enterprises**
- **R&D evaluation**
- **Reforming a network of R&D institutions in Russia**
- **Government R&D funding system**
- **Integration of science and education**
- **Tools for S&T and innovation policies (policy mix)**
- **Institutional reforms: public sector, national research centres, centres of excellence, S&T foundations, innovative SMEs at R&D units and universities etc**
- **Promotion of innovation and technology transfer**
- **Evaluation, legal regulation and commercialisation of IPR**
- **Human resources**
- **Information Society: statistics, indicators, strategies**
- **Legal framework for innovation**

# ISSEK – National Foresight centre

Decision of Interministerial Commission on S&T Foresight in the Russian Federation 29.06.2010



# Foresight studies at HSE

## Development of methodologies

- New methods of expert studies (integrated roadmaps, weak signals, «wild cards» et al.)
- Combination of qualitative and quantitative methods
- Organisation of Foresight studies
- Evaluation of Foresight studies (ex ante и ex post)

## Complex of Foresight studies at national, regional, sectoral and corporate levels

- S&T Foresight : 2025 and 2030
- S&T Priorities, Critical Technologies
- Innovation priorities for the sector of natural resources
- Nanotechnology markets Foresight
- Roadmaps for sectors and product groups
- Corporate Foresight

## Monitoring global technology trends

- Global research fronts
- Patent analysis, technological specialisation of Russia
- Emerging areas of S&T
- International, national and corporate S&T priorities
- Monitoring of studies on future of S&T and innovation
- Russia's positioning in global technology development
- S&T co-operation with leading countries
- Special expert studies

**FORESIGHT-RUSSIA – an academic journal published by HSE since 2007 and administered by ISSEK.**

## **Key issues :**

- Foresight methodologies
- Results of Foresight studies performed in Russia and abroad
- Long-term priorities of social, economic and S&T development
- S&T and innovation trends and indicators
- S&T and innovation policies
- Strategic programmes of innovation development at national, regional, sectoral and corporate level
- Master class: effective tools and best practices of STI Foresight, analysis and forecasting
- Glossary on terms and state-of-the-art methodologies
- Interviews with renowned Russian and foreign experts



**Target audience:** research scholars, university professors, post-graduates, policy-makers, businessmen, expert community, undergraduates and others who are interested in S&T and innovation analyses, Foresight and policy issues

# Interaction with companies

- **Technology platforms**
- **Innovation strategies** for large companies
- Development of **long-term strategies** on the basis of Foresight and roadmaps

**HSE is responsible for development of the programme  
(Decision of the Council of Heads of CIS Governments, 2010)**

## STRUCTURE OF THE PROGRAMME

- **Co-operation in Innovation**
- **Mobilisation of S&T Potential**
- **Human Resources for Innovation**
- **Innovation Infrastructure**
- **Management**
- **Regulation**

# Participation in international expert networks

- OECD Working Group of National Experts on S&T and Innovation (NESTI)
- Eurostat Working Group on S&T and Innovation Statistics
- OECD and Eurostat working groups on statistics of Information Society and education
- OECD Working Party on Nanotechnology
- Advisory group for international S&T co-operation at the European Commission
- The International OECD Foresight Professionals' Network
- EU Foresight expert group
- EU expert group on regional Foresight
- UNIDO expert group on technology Foresight
- World Future Society
- European Foresight Monitoring Network, et al.







# EU 7<sup>th</sup> Framework Programme: Projects with participation of HSE

**HSE – National Contact Point for FP7**

**INCO NCP**

**NCP Mobility**

|   |  |
|---|--|
|     | <p>Creation of a network for international S&amp;T co-operation with East-European and Central Asia countries (<b>IncoNet EECA</b>)</p>  |
|    | <p>Enforcement of bilateral S&amp;T co-operation with Russia (<b>BILAT-RUS</b>)</p>  |
|    | <p>Integration of Russia to the European Research Area: co-ordination of S&amp;T programmes of EU member states and associated countries, aimed at co-operation with Russia (<b>ERA.Net RUS</b>)</p> |
|  | <p>Transnational interaction of National Contact Points for international co-operation (<b>INCONTACT – One World</b>)</p>  |
| <p><b><u>EU-RU.NET</u></b></p>  | <p>Co-ordination of strategies for development of R&amp;D, Foresight and promotion of EU-Russia co-operation in the field of nanoelectronic technologies (<b>EU-RU.NET</b>)</p>                      |

# Thank you!

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