

## **Appendix 1. Sections Contents**

### **1. Social determinants of Siberia's development in time and space**

The aim of the section is to discuss the urgent problems and current prospects for the socio-economic development of the Siberian regions against all-Russian trends in focus of scientific ideas and research approaches of the Novosibirsk Economic and Sociological School. The School's trademark is a comprehensive study of social facilities; combination of quantitative and qualitative research methods; immersion in the socio-economic practices of Russia and Siberian regions; collection of empirical data during sociological expeditions/surveys. We will consider demographic security issues of Siberia and Russia, problems and prospects of professional education, experience in transforming the youth potential into human capital, the specifics of labor and employment markets in Siberia, the existing socio-economic inequalities reproduction models in Siberia and Russia, the development of urban and rural areas, the content and principles of shaping the Siberian identity, the processes of reforming the municipal government, and practices of local communities self-organization.

### **2. How to turn space from a curse into a resource for development?**

The section is devoted to spatial limitations of development and increasing spatial efficiency of the Russian and Siberian economies. We discuss prospects of a resource economy and reserves for diversifying the industrial structure, a reconfiguration of the economic aspects of federal relations and market institutions, urban system potential and the role of large agglomerations in it, issues of transport connectivity and infrastructure security, priorities and tools of regional policy.

### **3. Problems of industrial and infrastructural development of Siberian regions amid current challenges**

The section relies upon the issues tackled by the Department for Analysis and Forecasting the Industrial Systems at the IEIE SB RAS as part of research. It is concerned with resource, institutional, infrastructural, and environmental problems of development of meso-economic systems in Siberia. We encourage academic economists, professors, graduate students, practitioners, and executive managers to join the conversation. It is planned to discuss a wide range of problems, including threats and challenges to the development of regional industrial systems, companies within all-Russian and global trends, and their current competitive advantages. The emphasis is on strategic issues of Siberian economy development.

### **4. Models and methods used in research of prospects for social and economic development of Siberia and Russia both as a whole and in view of industry complexes and macro-regions**

The work at this section is aimed at presenting, analyzing and summarizing the results obtained, as well as determining the directions for further research developments according to the following thematic clusters:

- integration of model-methodological complexes used and developed in the IEIE SB RAS in cooperation with the Institute's strategic partners (Institute of Economic Forecasting RAS, Central Economics and Mathematics Institute RAS, Institute of Economics UrB RAS, Economic Research Institute FEB RAS, etc.);
- absorption of the achievements of fundamental theoretical studies on socio-economic dynamics and space (theory and models of scientific and technological development; equilibrium and nonequilibrium transitions in the open economic space; parametric theory of scenario development; financial, social, ecological aspects of economic dynamics; emergent effects in the socio-economic space) by the instrumental environment (especially within the framework of the SIREN and SONAR superprojects);
- use of an agent-based approach to the modeling of economic processes in time and space (expanding the lineup of agents; including neo- and non-classical elements in the behavior of economic agents; developing techniques for describing the dynamics; improving the realism in presenting markets for goods and services, labor, finance, and natural resources; defining the opportunities of using super- and distributed computing);
- applied analysis, forecasting, strategic planning and programming of social and economic development of Siberia and Russia, as an illustration of how to use the models and methods under study, developed approaches, theoretical and instrumental concepts.

### **5. Enterprises in a turbulent economy: concepts, strategies, and management models**

The section is dedicated to examining the problems of enterprise management in a new reality designed by technological, market, and other challenges of the external environment. The panel incorporates a range of questions about the directions, shapes, and consequences of changes in the structure and management system of both individual enterprises and their various integration forms. We discuss the development barriers and factors for the companies associated with the traditional branches of the Siberian and Russian economies, as well as the problems faced by the "new" economy companies. We highlight the current partnership models between the

business community, science, education, and the state. The section participants focus on the problems and prospects for the development of high-tech business in Russia, its adaptation to changes caused by the ongoing processes of digital transformation of the economy and society in general.

#### **6. Traditions and novelties in the institutional development of regions**

The goal is to present and share opinions on the results of studies concerning the problems and prospects for the institutional development of regions in Siberia, Russia, and other countries. The scientific discussion covers various issues of institutional economic regionalism, such as routinization and innovation of regional processes, transaction costs at the regional level, the formation of contract systems, projects for creating regional and municipal governments and authorities or replacing institutions with them, regional policies, corruption in the regions, etc. Researchers from the Novosibirsk School of Institutional Economics and Economic Policy will take an active part in the section. We invite scientists, professors, graduate students, civil servants, and other interested persons to join the debate.