



HIGHER SCHOOL OF ECONOMICS  
NATIONAL RESEARCH UNIVERSITY

ANNUAL  
INTERNATIONAL  
ACADEMIC  
CONFERENCE

**FORESIGHT  
& STI POLICY**

**PROGRAMME**

NATIONAL RESEARCH UNIVERSITY  
HIGHER SCHOOL OF ECONOMICS  
MYASNITSKAYA STREET, 11 (ROOM 518)  
NOVEMBER 20-22, 2019  
MOSCOW, RUSSIA

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**November 20, 2019**

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**SPECIAL WORKSHOP**  
**SMART CITIES AND SUSTAINABLE URBAN FUTURES**

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**14:30 Registration**

**15:00** Ozcan Saritas, HSE ISSEK, Russia

**Welcome and Introduction to the Workshop**

**SESSION 1: URBANITIES 4.0 PROJECT – CHULALONGKORN UNIVERSITY**

**Chair:** Apiwat Ratanawaraha, Chulalongkorn University, Thailand

**15:10** Apiwat Ratanawaraha, Chulalongkorn University, Thailand  
**Urbanities 4.0 Project: Introduction**

**15:20** Panthira Julayanont, Chulalongkorn University, Thailand  
**Future of Vertical Living**

**15:30** Anuk Pitukthanin, Chulalongkorn University, Thailand  
**Futures of Homelessness**

**15:40** Wan Chantavilasvong, Chulalongkorn University, Thailand  
**Futures of Service Work**

**15:50** Peamsook Sanit, Chulalongkorn University, Thailand  
**Futures of Motorcycle Riding**

**16:00** Pornsan Vichienpradit, Chulalongkorn University, Thailand  
**Futures of Grocery Shopping**

**16:10** Apiwat Ratanawaraha, Chulalongkorn University, Thailand  
**Q&A, Discussion and Wrap-up**

**16:20 Coffee**

**SESSION 2: SOCIAL AND TECHNOLOGICAL TRENDS FOR URBAN DEVELOPMENT AND HOUSING**

**Chair:** Ozcan Saritas, HSE University, Russia

**16:40** Joe Ravetz, University of Manchester, UK  
**United Nations Peri-Urban Futures Project (TBC)**

**16:55** Pablo David Goldin Marcovich, Master's Programme "Prototyping Future Cities", HSE University, Russia;  
Elena Mitrofanova, Shukhov Lab, HSE University, Russia  
**Towards a Zero Emission City: Challenges and Reflections  
on the Conception of the Shukhov Lab Vision for Moscow 2050**

**17:10** Yulia Milshina, HSE University, Russia  
**Global Trends in Housing**

**17:25** Lyubov Matic, HSE University, Russia  
**Technology Roadmaps for Housing Industry**

**17:40 Brainstorming Session on Housing Roadmaps**

**18:10 Discussion and Wrap-up**

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## November 21, 2019

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**9:20 Registration**

**9:50 Welcome and Introduction to the Conference**

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### SESSION 1: S&T FORESIGHT: NEW METHODS AND APPLICATION AREAS

**Chair:** Leonid Gokhberg, HSE University, Russia

**10:00** Alexander Chulok, HSE ISSEK, Russia

**Blended Foresight Methods for Research of Corporate Strategic Development: A Case of Russian Companies**

**10:20** John Sweeney, University of Manoa, USA; Qazaq Research Institute for Futures Studies/Narxoz University, Kazakhstan (by Skype)

**Participatory Futures in Theory and Practice:**

**Results from Collaborative Research with NESTA and the Action Foresight Global Swarm**

**10:40** Yulia Milshina, Darya Pavlova, HSE ISSEK, Russia

**Analysis of Key Future Events (Timelines) and Wild Cards in National Foresight Studies**

**11:00** Ilya Kuzminov, HSE ISSEK, Russia

**Strategic Implications of New Generative Language Models for Analytics and Consulting Sector**

**11:20 Coffee**

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### SESSION 2: FORESIGHT: SOCIAL DIMENSION

**Chair:** Jose Cordeiro, Global Futures Studies and Research Center "The Millennium Project", USA

**11:40** Joe Ravetz, University of Manchester, UK

**From Big Data to Deeper Thinking: Foresight as Pathway for Collective Intelligence (TBC)**

**12:00** Ibon Zugasti Gorostidi, The Millennium Project Node, Spain

**The Future of Work and Technology 2050 Study**

**12:20** Ozcan Saritas, HSE ISSEK, Russia

**Digitalization of Foresight**

**12:40** Apiwat Ratanawaraha, Chulalongkorn University, Thailand

**Urbanities 4.0: The Futures of Thai Urban Life**

**13:00 Lunch**

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### SESSION 3: FORESIGHT: SECTORAL STUDIES

**Chair:** Kuniko Urashima, National Institute of Science and Technology Policy, Japan

**14:00** Jose Cordeiro, The Millennium Project, USA

**Kardashev Civilization Scales: From the Past to the Future**

**14:20** Pavel Bakhtin, HSE ISSEK, Russia

**Forecasting of Research Fronts in the Area of Artificial Intelligence Based on Semantic Analysis**

**14:40** Sarah Cheah, National University of Singapore, Singapore

**Learning in the Digital Economy**

**15:00** Andrey Dutov, Vladislav Klochkov, National Research Center "Zhukovsky Institute", Russia

**Science and Technology Foresight and Social Aspects of Technological Changes**

**15:20 Coffee**

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### SESSION 4: FORESIGHT: INTERNATIONAL PERSPECTIVE

**Chair:** Sarah Cheah, National University of Singapore, Singapore

**15:40** Kuniko Urashima, National Institute of Science and Technology Policy, Japan

**Overview of the 11th Delphi Survey**

**16:00** Surachai Sathitkunararat, APEC Center for Technology Foresight, Thailand

**The Paradigm Shift of Thailand National Policy: The Crucial Role of Foresight**

**16:20** Mu Rongpin, Center for Innovation and Development, Chinese Academy of Sciences, China

**S&T Foresight in China: Methodology and Organisation (TBC)**

**16:40** Fabienne Goux-Baudiment, Research Centre for Futures Studies "proGective", France

**Governance X.0: A New Tool for the World as a Next Step of Evolution into a Non-predatory Economy**

**17:00** Komkrit Sivara, PTT – Petroleum Authority of Thailand

**Foresight for City, Community and Business Transformation: A Future Perspective of PTT**

**17:20 Wrap-up**

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## November 22, 2019

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### 9:00 Registration

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#### SESSION 5. SCIENCE, TECHNOLOGY AND INNOVATION POLICY

**Chair:** Alexander Sokolov, HSE ISSEK, Russia

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### 9:30 Introduction

**9:40** Loet Leydesdorff, University of Amsterdam, the Netherlands; Inga Ivanova, HSE ISSEK, Russia  
**The Measurement of Interdisciplinarity and Synergy**

**10:00** Keun Lee, Seoul National University, Republic of Korea  
**National Innovation Systems in BRICS in International Comparison**

**10:20** Vitaly Roud, HSE ISSEK, Russia  
**Technological Inequality of the Russian High-tech Manufacturing Firms:  
A Challenge for Upgrading?**

**10:40** Stanislav Zaichenko, HSE ISSEK, Russia  
**Private R&D Organizations vs State-owned Ones: Evidence for Selective S&T Policies**

### 11:00 Coffee

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#### SESSION 6: SCIENCE, TECHNOLOGY AND INNOVATION POLICY (CONTINUED)

**Chair:** Wolfgang Polt, Joanneum Research, Policies, Austria

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**11:20** Alena Nefedova, HSE ISSEK, Russia  
**Workplace Innovation: Results of a Large-scale Survey in Russia**

**11:40** Valentina Cillo, Marche Polytechnic University, Italy  
**Innovating through Digital Revolution. The Role of Soft Skills in Increasing Firm  
Performance**

**12:00** Valentina Polyakova, HSE ISSEK, Russia  
**Are People in Russia Ready to Live and Work with Robots? Evidence from a Population  
Survey**

**12:20** Jonathan Linton, Sheffield University, UK; HSE ISSEK, Russia; Wei Xu, China Materials  
Systems Corp.  
**Understanding the Differing Impacts of Innovation Across the Supply Chain**

### 12:40 Lunch

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#### SESSION 7: SCIENCE, TECHNOLOGY AND INNOVATION POLICY (CONTINUED)

**Chair:** Dirk Meissner, HSE ISSEK, Russia

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**13:40** Valeria Vlasova, HSE ISSEK, Russia  
**Firms' Perspectives on Innovation Policy Measures**

**14:00** Ekaterina Streltsova, Gleb Kuzmin, HSE ISSEK, Russia  
**Russian "Technopolises": The Technological Specialization of the Cities**

**14:20** Yaroslav Eferin, Evgeny Kutsenko, HSE ISSEK, Russia  
**Revealing "Whirlpools" and "Safe Harbors": Long-term Industrial Evolution in Russian  
Regions**

**14:40** Manlio Del Giudice, Link Campus University, Italy  
**Evolution and Management of Knowledge Assets in the Digital Network:  
Future Perspectives of Knowledge Management**

### 15:00 Coffee

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**SPECIAL WORKSHOP  
PROSPECTS OF SCIENCE AND TECHNOLOGY IN BRICS COUNTRIES**



**Chairs:** Andrey Anikeev, Deputy Head of Department of Research and S&T Policy, Ministry of Science and Higher Education of the Russian Federation; Paulo Cesar do Valle Torres, Department of Science, Technology and Innovation of the Embassy of Brazil to the Russian Federation

**15:20 Welcome and Introduction**

**15:30** Marcio de Miranda Santos, Center for Strategic Studies and Management, Brazil  
**A Brief Analysis of the Current Collaboration among BRICS Countries  
Scientists in Selected Areas**

**15:50** Maxim Kotsemir, Alexander Sokolov, HSE ISSEK, Russia  
**BRICS+: Bibliometric Analysis of Emerging Economies**

**16:10** Gautam Goswami, Technology Information, Forecasting and Assessment Council, India  
**Long-term Technology Foresight in India – A Case Study**

**16:30 Coffee**

**16:50** Xie Fei, Chinese Academy of Science and Technology for Development, China  
**The Future of Science and Technology in China**

**17:10** Mlungisi Cele, National Advisory Council on Innovation, Department of Science and Technology, Republic of South Africa  
**Emerging Science, Technology and Innovation Priorities for South Africa**

**17:30** Ninel Seniuk, HSE University, UNIDO Centre for International Industrial Cooperation in the Russian Federation  
**BRICS Innovative SME's Perspectives on Participation in Global Value Chains: Case of Russia**

**17:50 Wrap-up**