



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

November 20, 2019

SPECIAL WORKSHOP
SMART CITIES AND SUSTAINABLE URBAN FUTURES

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 Irina Ilina, Institute of Regional Studies and Urban Planning, Faculty of Urban and Regional Development, HSE University, Russia
Russian Cities: Trends of Digital Transformation

17:20 Yulia Milshina, HSE University, Russia
Global Trends in Housing

17:30 Lyubov Matic, HSE University, Russia
Technology Roadmaps for Housing Industry

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

18:20 **Discussion and Wrap-up**

November 21, 2019

9:20 Registration

9:50 Welcome and Introduction to the Conference

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

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

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

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

November 22, 2019

9:00 Registration

SESSION 5. SCIENCE, TECHNOLOGY AND INNOVATION POLICY

Chair: Alexander Sokolov, HSE ISSEK, Russia

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

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

Chair: Wolfgang Polt, Joanneum Research, Policies, Austria

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

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

Chair: Dirk Meissner, HSE ISSEK, Russia

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

November 22, 2019

**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

17:40 Olga Yudina, Ministry of Energy of the Russian Federation
BRICS Energy Research Cooperation Platform – Interim Results and Plans for the Future

17:50 | Wrap-up