



**HSE**  
University

**X**<sup>th</sup>  
INTERNATIONAL  
ACADEMIC  
CONFERENCE

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**FORESIGHT  
& STI POLICY**

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9–13 NOVEMBER, 2020  
MOSCOW

**PROGRAMME**

## November 9, 2020

### SESSION 1: POST-COVID FUTURE: WHAT FORESIGHT CAN TELL US

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

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| 15:00 | Kuniko Urashima, National Institute of Science and Technology Policy, Japan<br><b>Impact of COVID-19 on Technology Realization Time</b>                |
| 15:20 | Jennifer Cassingena Harper, Council for Science & Technology, Malta<br><b>The Role of Foresight in Addressing the EU Green Deal</b>                    |
| 15:40 | Yulia Milshina, HSE ISSEK, Russia<br><b>Global Trends: How the World Will Change after the Pandemic</b>  |
| 16:00 | Anastasia Belostotskaya, World Energy Council<br><b>How to Better Recover from Crisis: Supporting Energy Leaders with Foresight Insights and Tools</b> |
| 16:20 | <b>Coffee break</b>  |

### SESSION 2: BIG DATA FOR THE FUTURE: INSTRUMENTS AND APPLICATIONS

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

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| 16:40 | Ilya Sochenkov, HSE ISSEK, Russia<br><b>S&amp;T Analytics Based on Big Textual Data: Functions, Technologies, Architecture</b>   |
| 17:00 | Ibon Zugasti, The Millennium Project, Spain<br><b>Governance of the Transition from Artificial Narrow to Artificial General Intelligence in the Post-Pandemic Scenario</b> |
| 17:20 | Elena Khabirova, HSE ISSEK, Russia<br><b>Intelligent Big Data Analytics: Promising Custom Functions and New Analytical Products</b>  |
| 17:40 | Alanna Markle, Dexter Docherty, OECD<br><b>The Socio-economic and Geopolitical Implications of the Metaverse</b>   |
| 18:00 | <b>Discussion and Wrap-up</b>  |

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## November 10, 2020

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### SESSION 3: FORESIGHT: FUTURE TRENDS AND DISRUPTIONS

**Chair:** Philip Shapira, University of Manchester, UK

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| 15:00 | Matthias Weber, Austrian Institute of Technology, Austria<br><b>Take or Shape: Policy Governance and Foresight Modes to Address Transformation Processes</b>   |
| 15:20 | Ilya Kuzminov, HSE ISSEK, Russia<br><b>Total and Humane Digital Transparency: Digital Technologies of the Future, Explainable AI and Yottabyte Big Data for Human Right Sensitive Controllability in Society of Ever-increasing Complexity</b> |
| 15:40 | Jose Cordeiro, The Millennium Project, USA<br><b>COVID-19 Scenarios</b>  |
| 16:00 | Attila Havas, Hungarian Academy of Sciences, Hungary<br><b>Science-society Interactions in the European Union: Different Futures and Their Radically Different Implications</b>  |
| 16:20 | <b>Coffee break</b>  |
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### SESSION 4: STI POLICY: HOW IT WILL CHANGE AFTER COVID-19

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

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| 16:50 | Rafael Popper, VTT Technical Research Centre of Finland<br><b>Universal Foresight: A Research and Innovation Ecosystem to Advance Foresight Practice</b>             |
| 17:10 | Valeriya Vlasova, Vitaly Roud, HSE ISSEK, Russia<br><b>Cooperation in the Age of Open Innovation: Composition of Innovation Networks</b>                             |
| 17:30 | Michael Keenan, OECD<br><b>The OECD STI Outlook 2020 – STI in Times of Crises</b>  |
| 17:50 | Valentina Poliakova, Konstantin Fursov, HSE ISSEK, Russia<br><b>Digital Dreams: A Study on Factors and Practices of Public Engagement in the Digital Environment</b> |
| 18:10 | <b>Discussion and Wrap-up</b>  |
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## November 11, 2020

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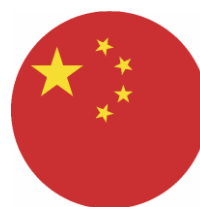
### SESSION 5: HOW TO MEASURE INNOVATIONS IN CITIES? DIFFERENT APPROACHES AND NEW DATA SOURCES

**Chair:** Evgeniy Kutsenko, HSE ISSEK, Russia

12:00	Julio Raffo, World Intellectual Property Organization <b>The Challenge of Identifying Global Innovation Hotspots: from Georeferenced Data to Ecosystem Indicators</b>
12:15	Evgeniy Kutsenko, HSE ISSEK, Russia <b>Methodology and Results of HSE Global Innovation Index (HSE GCII) 2020</b>
12:30	Natalia Trunova, Center for Strategic Research, Russia <b>TBD</b>
12:40	Irina Ilina, HSE, Russia <b>Multifunctional Approaches to Urban Development Planning</b>
12:50	Evgeny Kuznetsov, Orbita Capital Partners, Russia <b>TBD</b>
13:00	Denis Shchukin, Foundation for the Support of Creative Industries 'Creative Practices', Russia <b>Creative Capital: Approaches to Defining and Measuring</b>
13:10	<b>Discussion and Wrap-up</b>

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



**Co-chairs:** Andrey Romanov, Ministry of Science and Higher Education of the Russian Federation; Alexander Sokolov, HSE ISSEK, Russia

15:00	<b>Welcome and Introduction</b>
15:10	Alexander Chulok, HSE ISSEK, Russia <b>Bioeconomy 2.0 – a High Level Priority in a Post-COVID Society</b>
15:30	Yuan Like, Chinese Academy of Science and Technology for Development, China <b>Characters and Procedures of the Sixth Science and Technology Foresight in China</b>
15:50	Ninel Seniuk, HSE, UNIDO Centre for International Industrial Cooperation in the Russian Federation <b>Fostering the Development of Intra-BRICS Value Chains in the Field of Technological SMEs</b>
16:10	Zhao Xinli, China Science and Technology Exchange Center (CSTEC), International Eurasian Academy of Sciences (IEAS) <b>Assessment and Prediction of International Competitiveness and Status Quo and Suggestion of STI Cooperation among BRICS Countries</b>
16:30	<b>Coffee break</b>
16:50	Mlungisi Cele, National Advisory Council on Innovation, Republic of South Africa <b>Relationship between Foresight Exercise and STI Policy: A South African Case Study</b>
17:10	Konstantin Vishnevskiy, HSE ISSEK, Russia <b>High-tech Areas of Digital Technologies Development: State-of-the-art and Prospects</b>
17:30	Marcelo Paiva, Marcio de Miranda Santos, Center for Strategic Studies and Management, Brazil <b>The Last Six Years of the Brazilian Scientific Production: Highlights of the Country's Global Positioning and Relationships with BRICS</b>
17:50	<b>Discussion and Wrap-up</b>

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## November 12, 2020

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### SESSION 6: CLUSTERS' REACTION TO COVID-19: ANTI-CRISIS PRACTICES

Chair: Evgeniy Kutsenko, HSE ISSEK, Russia

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| 12:00 | Fabio Russo, the United Nations Industrial Development Organization (UNIDO)<br><b>UNIDO's Experience in Supporting SME Cluster Recovery and Building Resilience</b>                              |
| 12:15 | Ásta Kristín Sigurjónsdóttir, Iceland Tourism Cluster, Iceland<br><b>Restart Tourism – Case of Iceland</b>   |
| 12:30 | Anatoly Valetov, Moscow Innovation Cluster, Russia<br><b>Experience of Moscow Innovation Cluster during the Pandemic</b>   |
| 12:45 | Faina Filina, Moscow International Medical Cluster, Russia<br><b>Activities of Moscow International Medical Cluster during COVID-19</b>  |
| 13:00 | Kai Uwe Bindseil, Berlin Partner for Business and Technology, Germany<br><b>Excellent Science, Digital Solutions, Entrepreneurial Spirit und Solidarity: Berlin's Fight against the Pandemic</b> |
| 13:15 | <b>Discussion and Wrap-up</b>  |
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### SPECIAL WORKSHOP: Being Human and Anticipation in the 21st Century

#### SESSION 1: EVOLUTION OF HUMAN & TECHNOLOGY INTERACTIONS

Chair: Ozcan Saritas, HSE ISSEK, Russia

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| 15:00 | Sarah Cheah, National University of Singapore, Singapore<br><b>Robotics Development in Singapore</b>                                   |
| 15:20 | Vasily Klucharev, HSE, Russia<br><b>Brain-computer Interfaces (BCIs) and Human Evolution</b>   |
| 15:40 | Anna Grebenyuk, HSE ISSEK, Russia<br><b>Key Trends for Health Technology Development</b>   |
| 16:00 | Banu Onaral, School of Biomedical Engineering, Science & Health Systems, Drexel University, USA<br><b>Human-technology Convergence</b> |
| 16:20 | <b>Coffee break</b>  |
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#### SESSION 2: FORESIGHT 3.0: THE NEW CONTEXT, AGENDA AND INSTRUMENTS

Chair: Ozcan Saritas, HSE ISSEK, Russia

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| 16:40 | Joe Ravetz, University of Manchester, UK<br><b>Introduction to the Session &amp; Discussion Topics</b>  |
| 16:55 | Geci Karuri-Sebina, Wits School of Governance, South Africa<br><b>Foresight Context: Global Transformations, Challenges &amp; Opportunities</b>     |
| 17:10 | Effie Amanatidou, University of Manchester, UK<br><b>Foresight Agenda: The New Scope for Foresight</b>  |
| 17:25 | Jonathan Calof, HSE ISSEK, Russia<br><b>Foresight Process: Emerging Approaches, Tools &amp; Communities – Collective Human-machine Intelligence</b> |
| 17:40 | Ian Miles, HSE ISSEK, Russia<br><b>Synergy &amp; Synthesis</b>  |
| 18:10 | Ozcan Saritas, HSE ISSEK, Russia<br><b>Discussion and Wrap-up</b>   |
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## November 13, 2020

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### SPECIAL WORKSHOP: TECHNOLOGICAL UPGRADING

Chair: TBD

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13:00 Dirk Meissner, HSE ISSEK, Russia

**Welcome and Introduction to the Workshop**

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### SESSION 1: EMERGING PARADIGMS ON TECHNOLOGY CAPABILITY UPGRADING

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13:20 Keun Lee, Seoul National University, Republic of Korea

**Economics of Technological Leapfrogging**

13:40 Jeong Dong Lee, Seoul National University, Republic of Korea

**Middle Innovation Trap: Capability Transition Failure and Stalled Economic Growth**

14:00 Slavo Radosevich, University College London, UK

**Technology Upgrading in Emerging Economies: A New Approach to its Measurement, Results and Relationship to Mainstream Measures**

14:20 Nicholas Vonortas, George Washington University, USA; HSE ISSEK, Russia

**Macro and Micro Foundations for Technology Upgrading and Innovation: A Case Study**

14:40 **Coffee break**

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### SESSION 2: NEW REQUIREMENTS FOR INNOVATION POLICY

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15:00 Sandrine Kergroach, OECD

**Benchmarking the National Innovation Policy Mix**

15:20 Mario Cervantes, OECD

**Policy Needs for Measuring and Monitoring International STI Co-operation**

15:40 Vitaly Roud, HSE ISSEK, Russia

**Heterogeneity of Innovation Strategies – Impact on Innovation Policies**

16:00 **Discussion and Wrap-up**

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