



Department of IT, BT and S&T

## GLOBAL R&D SUMMIT 2017

Destination India: R&D and Innovations for Socio-Economic & Industrial Development

April 6-7, 2017, The Lalit Ashok, Kumara Krupa High Grounds, Bengaluru

### PROGRAM AGENDA

#### Day I:

09:30–10:30	Registration
<b>Inaugural Session</b>	
10:30-10:35	<i>Moderator: Dr Makarand Phadke, Chairman, FICCI National Committee on S&amp;T/Innovation &amp; Sr. VP-Innovations, Reliance Industries Ltd</i>
10:35-10:45	<i>Welcome Address by Mr. Shekar Viswanathan Chairman, FICCI Karnataka State Council, Vice Chairman &amp; Whole-time Director Toyota Kirloskar Motor Pvt Ltd.</i>
10:45-11:00	<i>Special Address by Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Government of India</i>
11:00-11:15	<i>Address by Mr Fomichev Oleg Vladislavovich, State Secretary-Deputy Minister of Economic Development of the Russian Federation</i>
11:15-11:30	<i>Address by Shri Gaurav Gupta, Principal Secretary, Dept. of IT, BT and S&amp;T, Govt. of Karnataka</i>
11:30-11:40	<i>Address by Mr. Phil Shaw ,Chief Executive of Lockheed Martin India</i>
11:40-11:50	<i>Release of FICCI-Edelman Reports on "Harnessing Private Sector Investments in R&amp;D" by Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Government of India</i>
	<i>Release of FICCI-Edelman Reports on "Bengaluru as Innovation Capital" by Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Government of India</i>
11:50-12:05	<i>FICCI R &amp; D Awards Distribution by Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Government of India</i>
	<i>FICCI Catapult Awards Distribution by Shri Gaurav Gupta, Principal Secretary, Dept. of IT, BT and S&amp;T, Govt. of Karnataka</i>
12:05-12:15	<i>Concluding Remarks &amp; Vote of Thanks by Dr Makarand Phadke, Chairman, FICCI National Committee on S&amp;T/Innovation &amp; Sr. VP-Innovations, Reliance Industries Ltd</i>
12:15-12:30	<i>Inauguration of Exhibition by Dignitaries</i>
12:30-13:30	<b>Networking Lunch</b>
<b>Sessions</b>	
13:30 – 14:30	<p><b><u>Session I: Future of R&amp;D ecosystem: Global Trends &amp; Lessons for India</u></b></p> <p><i>In a continuously evolving business scenario, newer models of R&amp;D ecosystem have emerged globally. Countries like China have Special Economic Zones (SEZs) that offer a one-stop sector-specific research and manufacturing facilities to create sectoral global hubs. Similarly, Public-Private-Partnerships (PPP) as a model has met with considerable success in India. With changing economic stations, the world is looking at models that brings the best of global learnings and customize it to local conditions to create a win-win</i></p>

	<p><i>formula.</i></p> <p><i>What are the key learnings from existing R&amp;D ecosystems that exist in India and elsewhere in the world? How can global learnings be customized to develop a winning formula for India?</i></p> <p><b>Moderator: Mr. Erik Azuluy, Program Manager – India IC2 Institute, University of Texas at Austin</b></p> <p><b>Invited Panelists</b></p> <ol style="list-style-type: none"> <li>1. <b>Dr. Aloknath De, CTO, Samsung India</b></li> <li>1. <b>Ms. Monica Agarwal, Vice President, India Systems Development Lab, IBM</b></li> <li>2. <b>Mr. Angshik Chaudhuri, Global Managing Director, Smart+Connected Communities and Globalization, Cisco Systems Inc</b></li> <li>3. <b>Mr. Sriganesh Gandham, Executive Director &amp; Head-R&amp;D, Hindustan Petroleum Corp. Ltd.</b></li> <li>4. <b>Mr Vinod Kumar, General Manager, GE Global Research, Bengaluru</b></li> </ol>
<p><b>14:30 – 15:30</b></p>	<p><b>Session II: S&amp;T Counselors Session: Best policy interventions from across the globe</b></p> <p><i>R&amp;D/S&amp;T policy outlook of various nations is represented by respective S&amp;T Counselors working out of India. These Counselors not only bring their vast knowledge of the ecosystem prevailing in their respective nations, but having acquired an understanding of the Indian milieu, also offer a window on custom-made solutions for the Indian research ecosystem.</i></p> <p><i>What are the key observations of the Counselors on the Indian ecosystem and more importantly how can the respective learnings from their respective countries be applied in the Indian context?</i></p> <p><b>Moderator: Dr. Arabinda Mitra, Adviser &amp; Head, International Cooperation (Bilateral), Department of Science &amp; Technology, Government of India</b></p> <p><b>Invited Panelists</b></p> <ol style="list-style-type: none"> <li>1. <b>Dr Shai Moses, Consul for Trade &amp; Economic Affairs, Consulate General of the State of Israel, Bengaluru</b></li> <li>2. <b>Mr. Stephan Lanzinger Counsellor and Head of the Science and Technology Section, Embassy of Federal Republic of Germany</b></li> <li>3. <b>Dr Jérôme Bove, Attaché for Science and Technology ,Scientific Department ,Embassy of France in India, Bengaluru</b></li> <li>4. <b>Mr. Sean Kelly , Australian Consulate General</b></li> <li>5. <b>Mr Mikhail J Gorbатов, Director, Russian Centre of science &amp; Culture,Chennai</b></li> </ol>
<p><b>15:30 – 16:00</b></p>	<p style="text-align: center;"><b><u>Tea/Coffee Break</u></b></p>
<p><b>16:00 – 17:00</b></p>	<p><b>Session III: Private sector Investments in R&amp;D: Challenges &amp; Opportunities</b></p> <p><i>India spends less than 1% of its GDP on R&amp;D. This is in sharp contrast to countries like South Korea and Israel which spends more than 4%.The private sector’s contribution in</i></p> <p><i>R&amp;D as percentage of GDP in India is only one-third while two-third is being contributed by the public sector. Not only does the country need to increase its R&amp;D expenditure to at least 2.5%, but the private sector contribution also needs to increase accordingly. With increased government’s focus to bring investment in India, now is the right time to boost the private sector’s participation in the R&amp;D sector.</i></p>

	<p><i>What are the pre-requisites to attract investments in R&amp;D in the country and how can the existing policy frameworks be leveraged to get more local and global players set their R&amp;D units in India?</i></p> <p><b>Moderator: Dr Makarand Phadke, Chairman, FICCI National Committee on S&amp;T/Innovation &amp; Sr. VP-Innovations, Reliance Industries Ltd</b></p> <p><b>Invited Panelists:</b></p> <ol style="list-style-type: none"> <li><b>2. Dr. Manoj Haridas, Principal Scientist &amp; Head of Intellectual Property, ITC Life Sciences &amp; Technology Centre</b></li> <li><b>3. Dr Manoj Choudhary, Director, Samsung Semiconductor India R&amp;D, Bangalore</b></li> <li><b>4. Dr Rajiv Sharma, Head, Technology Missions Division, Department of Science &amp; Technology, Government of India</b></li> <li><b>5. Mr. Sudhir Mande CMD MM Industrials Controls Pvt. Ltd</b></li> <li><b>6. Mr. Gopinathan Padmanabhan, Chief Innovation Officer and President - Global Delivery, Mphasis</b></li> </ol>
<p><b>17:00 – 18:00</b></p>	<p><b>Session IV: R&amp;D led entrepreneurship - Riding the Startup Wave</b></p> <p><i>Research-led startups has its own share of challenges and opportunities. With the amount of risk involved with such startups, there is an all-the-more need to create a conducive ecosystem for these startups to survive and thrive. On an opportunity side, the entrepreneurs stand to be in a unique position to ideate, develop, and bring to market, innovative solutions that deploy high-end technology to create affordable products and services.</i></p> <p><i>What are the key imperatives for a research-based startup in the country? What is the government currently doing to boost such startups and what can be potentially done to make it more lucrative?</i></p> <p><b>Moderator: Mr. Suhas Gopinath, Co-Founder &amp; Director, Globals</b></p> <p><b>Invited Panelists</b></p> <ol style="list-style-type: none"> <li><b>1. Ms. Priya Balijepalli, Market Development - Autodesk Sustainability and Foundation, Autodesk</b></li> <li><b>2. Mr. Manish Gupta, Co-founder and CEO, VideoKen and Infosys Foundation Chair Professor, IIIT Bangalore</b></li> <li><b>3. Mr. Harpreet Singh, Head, Marketing and Partner Eco System, ESRI India</b></li> <li><b>4. Mr. Harsha Kuntur, Managing Director, Eco Soch</b></li> <li><b>5. Mr Jiten Ghelani, CEO, Promethean Power</b></li> </ol>
<p><b>18:00 onwards</b></p>	<p><b>Networking &amp; Cocktail Dinner: The Lalit Ashok Bangalore, Kumara Krupa High Grounds, Bengaluru</b></p>

**DAY II:**

<b>Sessions</b>										
<b>10:00-12:00</b>	<p><b>Session I: India-Russia Roundtable on S&amp;T/Research co-operation</b></p> <p><i>The Ministry of Economic Development of the Russian Federation in collaboration with the Science &amp; Technology Wing, Embassy of India in Moscow, shall organize 'Indo-Russian session/round table' celebrating the '70th anniversary of the establishment of diplomatic relations between India and Russia in 2017'.</i></p> <p><i>The Session shall aim to explore business and exchange learning and synergy in Research and Technology, Innovation Ecosystem in Russia. The session will witness Representatives of the Ministry of Economic Development of the Russian Federation, Executive authorities of the Russian Federation, Representatives of State-owned Foundations in the field of venture investment and innovation development, Associations of innovative regions of Russia, Science and Research Institutes, High-tech companies etc..</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;"><b>Moderator-Mr Sanjeev K Varshney, Scientist G/Advisor, International Division, Department of Science &amp; Technology</b></td> </tr> <tr> <td style="padding: 5px;"><b>Inaugural Address by Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Government of India</b></td> </tr> <tr> <td style="padding: 5px;"><b>Address by Mr Fomichev Oleg Vladislavovich, State Secretary-Deputy Minister of Economic Development of the Russian Federation</b></td> </tr> <tr> <td style="padding: 5px;"><b>Address by Mr K Ullas Kamath, Joint Managing Director, Jyothy Laboratories Ltd, Co-Chairman- FICCI-Karnataka State Council, Esteemed member of FICCI START UP committee, Chairman- FICCI Task Force for Technology Commercialization</b></td> </tr> <tr> <td style="text-align: center; padding: 5px;"><b>Themes</b></td> </tr> <tr> <td style="padding: 5px;"><b>Collaborative Innovation Transforming Business, Driving Growth: Indian – Russia – Govt.- Industry Academia Partnership Programme to build bilateral industry linkages which aim to improve and develop mutual engineering research and innovation output through strengthening industry linkages – specifically with SMEs, Startups - and leveraging and creating links with Indian and Russian expertise. The programme is based upon the premise that deep, strategic links between industry and universities with long time horizons can foster and inspire research and breakthrough engineering innovation. This programme also aims to create deeper ties between innovation stakeholders in both countries.</b></td> </tr> <tr> <td style="padding: 5px;"><b>Fostering Innovation-Driven Entrepreneurship/ Startup Ecosystem – Role of Government to develop and support academia led – Industry supported Promote knowledge and best practice sharing between universities and businesses in both countries, to inform engineering research and enhance its practical impact. Establishing Incubator for Startup at early stage, handholding for the startup in stage of scale and growth, Govt. lead Innovation – Investor and collaborative delegation in exchange program to collaborate connects and execute in respective geographies mutual and territories. Assessment of the present synergies and the way forward.</b></td> </tr> <tr> <td style="padding: 5px;"><b>Investment for commercialization and scale in the both the countries while fostering the innovative solution through – Investment (Stage wise), Mentorship, support in scaling through welcoming – Policies and procedures in both the countries.</b></td> </tr> <tr> <td style="padding: 5px;"><b>Academia and Industry - Prepare, Partner and Pioneer Improve business-university interface to help systemically foster deeper engagement amongst actors in the innovation eco-systems of both countries and create different models of business-university engagement for wider sharing and adoption.</b></td> </tr> </table>	<b>Moderator-Mr Sanjeev K Varshney, Scientist G/Advisor, International Division, Department of Science &amp; Technology</b>	<b>Inaugural Address by Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Government of India</b>	<b>Address by Mr Fomichev Oleg Vladislavovich, State Secretary-Deputy Minister of Economic Development of the Russian Federation</b>	<b>Address by Mr K Ullas Kamath, Joint Managing Director, Jyothy Laboratories Ltd, Co-Chairman- FICCI-Karnataka State Council, Esteemed member of FICCI START UP committee, Chairman- FICCI Task Force for Technology Commercialization</b>	<b>Themes</b>	<b>Collaborative Innovation Transforming Business, Driving Growth: Indian – Russia – Govt.- Industry Academia Partnership Programme to build bilateral industry linkages which aim to improve and develop mutual engineering research and innovation output through strengthening industry linkages – specifically with SMEs, Startups - and leveraging and creating links with Indian and Russian expertise. 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	<p><b>Russian Panelist:</b></p> <ol style="list-style-type: none"> <li>1. <i>Ponomarenko Nikita Vladimirovich, Deputy Director, Department for Strategic Development and Innovation of the Ministry of Economic Development of Russia</i></li> <li>2. <i>Povalko Alexander Borisovich, General Director, Chairman of the Board, JSC RVC</i></li> <li>3. <i>Druzhnikova Julia Evgenievna, Director for International Projects, RVC</i></li> <li>4. <i>Fedorishchev Dmitry Andreevich, Deputy Director, Association of Innovative Regions</i></li> <li>5. <i>Prohorenkova Anastasia Sergeevna Deputy Head of Project Support Division, START Program Group, Fund for Assistance to Small Innovative Enterprises In Science Technology Sphere (FASIE)</i></li> <li>6. <i>Pakhtanov Dmitry Alexandrovich, Deputy Head, Trade Representation of Russia in India</i></li> <li>7. <i>Melnikov Andrey Vladimirovich, Head of the Department Of Scientific and Technical Information ,LLC "NII Transneft"</i></li> <li>8. <i>Kozin Igor Vladimirovich, Senior Researcher ,External Projects Sector, LLC "NNI Transneft"</i></li> <li>9. <i>Maximov Vladimir Issakovich ,Deputy Director for perspective Developments, Federal State Budgetary Institution "Petersburg Nuclear Physics Insititute named after B.P. Konstantinov "of the National Research Center "Kurchatov Institute"</i></li> <li>10. <i>Balanev Maxim Sergeevich, Executive Director ,Regional Integrated Center-St. Petersburg</i></li> <li>11. <i>Kudryashova Natalia Viktorovna, Representative of State-owned Corporation ROSATOM in India</i></li> <li>12. <i>Shmelev Michail Borisovich, Deputy Director, RSC group</i></li> </ol> <p><b>Indian Panelist:</b></p> <ol style="list-style-type: none"> <li>1. <i>Mr Suhas Gopinath,Co-Founder &amp; Director, Globals</i></li> <li>2. <i>Ms Amruta Desai, Chief Founding Ninja, Campus Time</i></li> <li>3. <i>Mr. Nayaz Ahmed,Chief Operating Officer, Jain University Incubation Centre (JUincubator)</i></li> <li>4. <i>Mr. Anmol Vij, Co-Founder shopups</i></li> <li>5. <i>Mr Sunil Polly, Manager –Eco-system Partnership &amp; Events with 100 Open Startups</i></li> <li>6. <i>Panelist from NSRCEL, IIM Bangalore</i></li> <li>7. <i>Mr. Adarsh Natrajan, Founder at Alndra Systems Pvt. Ltd.</i></li> <li>8. <i>Dr. Subhadra Dravida , PhD. Founder &amp; CEO, Transcell Biologics</i></li> </ol>
12:00-12:20	Tea Break
12:15-13:00	<p><b>Session II: Global Collaborations: Adapting the Best Practices</b></p> <p><i>India has realized its undoubted potential as a home for world-class R&amp;D infrastructure but with all its diversity and capacity, it seems a surprise that India has not been able to collaborate more. Today, the country is looking forward to global collaborations that will bring India up to the level where she can begin to realize her potential, to the benefit of her own population and economy as well as contributing to global knowledge networks. Who are the potential collaborators and what would it take to establish such collaborations that are mutually benefitting?</i></p> <p><b>Moderator: Mr. Munish Gupta, Member, FICCI National Committees-Innovation, Science &amp; Technology; Start-Ups</b></p> <p><b>Invited Panelists</b></p> <ol style="list-style-type: none"> <li>1. <i>Dr. Girish Sahni, Director General, Council for Scientific &amp; Industrial Research</i></li> </ol>



	<p><i>(CSIR), Ministry of Science and Technology, Govt. of India</i></p> <ol style="list-style-type: none"> <li>2. <i>Dr Anubhav Saxena, Global Technology Director, Momentive Performance Materials</i></li> <li>3. <i>Mr Nitin Nag, Regional Director, South, Cloudnine Group of Hospitals</i></li> <li>4. <i>Dr. Joseph Mungarulire, Director General, National Industrial Research and Development Agency (NIRDA), Kigali, Rwanda</i></li> </ol>
13:00-13:45	<p><b>Session III (Thematic Session): R&amp;D in Infrastructure: Innovation for the next push on Infrastructure</b></p> <p><i>With more focus and thrust by the government on infrastructure, R&amp;D will play a key role in providing innovative solutions for development of initiatives like Affordable housing and Smart Cities. What would be innovative solutions and policy interventions that are required for bringing down the project costs so that it benefits the common man?</i></p> <p><b>Moderator: Dr. Prahlada, Formerly Distinguished Scientist and Chief Controller, Research &amp; Development, (Aero&amp; Services Interaction), DRDO</b></p> <p><b>Invited Panelists</b></p> <ol style="list-style-type: none"> <li>1. <i>Mr. Ravi Kochak, Former Additional Member (Production Units), Railway Board</i></li> <li>2. <i>Mr. Irfan Razack, Chairman, CREDAI</i></li> </ol>
13:45-14:30	<b>Lunch</b>
14:30-15:15	<p><b>Session IV (Thematic Session):Defence &amp; Aerospace R&amp;D Cooperation: Building Next-gen products and solutions</b></p> <p><i>The government's ambitious Make in India initiative have a huge potential to boost the defence and aerospace industry and the leading players in the sector are leveraging the intellectual capital in the country to create global solutions based out of their India offices. What is the next wave of innovation and research in the defense and aerospace sector and how is India poised to contribute to it?</i></p> <p><b>Moderator: Commodore Mukesh Bhargva, Vice President at L&amp;T Heavy Engineering</b></p> <p><b>Invited Panelists</b></p> <ol style="list-style-type: none"> <li>1. <i>Mr. Jitendra J Jadhav, Director , National Aerospace Laboratories</i></li> <li>2. <i>Mr. Arun RAO, Director - Strategic Planning &amp; Alliances , Dassault Systemes India</i></li> <li>3. <i>Dr. Srinivas Duvvuri, Director – Strategy and International Cooperation , Airbus India Operation</i></li> <li>4. <i>Mr. Anup Vittal - Aerospace &amp; Defense Industry Expert.</i></li> <li>5. <i>Mr. Pulak Sen, Founder Secretary General, MRO Association of India</i></li> </ol>
15:15-16:00	<b>Valedictory &amp; Closing Ceremony</b>
15:15- 15:25	<i>Shri R. V. Deshpande, Hon'ble Minister for Small, Medium &amp; Large Industries and Infrastructure Development, Government of Karnataka, Bengaluru</i>
15:25 - 15:35	<i>Shri Priyank Kharge, Hon'ble Minister of State for IT &amp; BT and Tourism, Government of Karnataka (Invited)*</i>
15:35- 15:40	<i>Mr Gaurav Gupta, Principal Secretary, Dept. of IT, BT and S&amp;T, Govt. of Karnataka</i>
15:40-15:45	<i>Dr. Girish Sahni, Director General, Council for Scientific &amp; Industrial Research (CSIR), Ministry of Science and Technology, Govt. of India</i>

<b>15:45-15:50</b>	<b><i>Ms. Salma K. Fahim, IAS, Director – Directorate of IT &amp; BT and MD, KBITS</i></b>
<b>15:50-15:55</b>	<b><i>Dr. Prahlada, Formerly Distinguished Scientist and Chief Controller, Research &amp; Development,(Aero &amp; Services Interaction), DRDO, Ministry of Defence, New Delhi and Vice Chancellor , Defence Institute of Advance Technology , Pune</i></b>
<b>15:55-16:00</b>	<b><i>Mr K Ullas Kamath, Joint Managing Director, Jyothy Laboratories Ltd</i></b>
<b>16:00-16:05</b>	<b><i>Mr. Ravi Boratkar,Jt Managing Director, MM Activ Sci Tech Communications Pvt Ltd ,Vice President, Maharashtra Economic Development Council</i></b>