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## 8th edition of BSX 2024 International Conference and Exhibition 18 - 20 September 2024; Bengaluru

"Accelerating Tomorrow: Harnessing the Potential of the Space Sector for Unified Expansion"

### MAIN SESSION

#### DAY 1 – 18 September 2024 (Jacaranda Hall)

|                  |   |
|------------------|---|
| 0800 - 1000 Hrs. | Registration  |
| 1000 - 1135 Hrs. | Inaugural Session   |
| 1135 - 1200 Hrs. | Tea/ Coffee Break   |
| 1200 - 1205 Hrs. | Inauguration of Exhibition  |
| 1205 – 1300 Hrs. | Visit to Exhibition   |
| 1300 - 1400 Hrs. | Lunch Break   |
| 1400 - 1445 Hrs. | Indian Space Reforms & Policies: Influence on Indian Space Sector                                       |
| 1445 – 1500 Hrs  | Keynote Address/Presentation: Indian Space Reforms and Policies: Norms Guidelines and Procedures        |
| 1500 - 1545 Hrs. | Exploring Sectoral Business Opportunities via Indian Space Industries.                                  |
| 1600 - 1630 Hrs. | Keynote Address/ Presentation –<br>Decisive Decade: Decadal Vision Roadmap for the Indian Space Economy |
| 1645 – 1730 Hrs. | Socio - economic Impact of Space Technologies & Applications  |

#### DAY 2 - 19 September 2024 (Jacaranda Hall)

|                  |  |
|------------------|--|
| 1030 - 1115 Hrs. | Futuristic & Emerging Technologies in Space: Commercial Prospects  |
| 1115 – 1130 Hrs  | Keynote Address by: Mr P Rajeeve, Hon'ble Minister of Industries, Law & COIR, Kerala                                   |
| 1130 - 1215 Hrs. | Space Applications for Business Growth: Leveraging GIS Solutions for the Private Sector                                |
| 1230 – 1300 Hrs. | Keynote Address/ Presentation - Accelerating Indian Space Sector: Key Enabling Initiatives for Private Space Ecosystem |
| 1300 - 1400 Hrs. | Lunch Break  |
| 1400 - 1445 Hrs. | Future of Satellite Navigation and Communications: Global Insights on Emerging Technologies and Business Models        |
| 1500 – 1545 Hrs. | Strengthening the Space Economy – Policy & Regulation Frameworks for Space Commerce, Insurance, and Financial Services |
| 1545 –1600 Hrs.  | Keynote Address/ Presentation - Expanding India's Commercial Space Sector Footprint Internationally                    |

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|                  |   |
|------------------|---|
| 1600 – 1645 Hrs. | The Quest for Capacity – Accelerating R&D, Manufacturing Capacity and Human Expertise |
| 1700 – 1730 Hrs. | Highlight Talk: Human Space Flight Programme  |

### DAY 3 – 20 September 2024 (Cassia Hall)

|                  |  |
|------------------|--|
| 1030 – 1130 Hrs. | A Global Destiny: International Collaborations in Space Sector |
| 1145 – 1200 Hrs. | Keynote Presentation: Indo-Danish collaboration in space       |
| 1210 – 1225 Hrs. | Keynote Presentation by Singapore                              |
| 1230 – 1330 Hrs. | Lunch Break  |

### COUNTRY AND FOCUSED SESSIONS

#### Day 1 – 18 September (Parijatha Hall)

|                  |  |
|------------------|--|
| 1400 – 1630 Hrs. | Session by European Space Agency and 4 European space startups |
|------------------|--|

#### DAY 2 – 19 September 2024 (Cassia Hall)

#### Day 2 – 19 September (Parijatha Hall)

|                  |   |                  |   |
|------------------|---|------------------|---|
| 1030 – 1130 Hrs. | Explore the future of space with Australia                  | 1100 – 1230 Hrs. | Session by World Economic Forum on Building an Inclusive Space Economy: Innovation, Global Collaboration & Funding opportunities. |
| 1200 – 1300 Hrs. | India & UK: Forging New Space Opportunities                 |                  |   |
| 1300 - 1400 Hrs. | Lunch Break   |                  |   |
| 1400 – 1730 Hrs. | Investing in Infinity: The Investor-Space Start-up Congress | 1400 – 1500 Hrs. | Italy-India Space Synergies: Innovations, Opportunities and Collaborations.   |

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### Day 1- 18 September 2024; Jacaranda Hall

| 1000 – 1135 Hrs. | Inaugural Session                     |   |
|------------------|---------------------------------------|---|
| 1000 – 1005 Hrs. | Welcome Address                       | <b>Mr. Rabindra Srikantan</b><br>Vice Chairman, CII Karnataka State Council   |
| 1005 – 1010 Hrs  | Theme Address                         | <b>Mr. Apparao Mallavarapu</b><br>Chairman & MD, Centum Electronics Ltd.<br>Chairman CII National Committee, Space                            |
| 1010 – 1020 Hrs  | Address                               | <b>Shri D Radhakrishnan</b><br>Chairman and Managing Director,<br>New Space India Limited (NSIL)<br>Co – Chair, CII National Committee, Space |
| 1020 – 1030 Hrs. | Address                               | <b>Dr. Philippe Baptiste</b><br>Chairman and Chief Executive Officer<br>CNES, France  |
| 1030 - 1040 Hrs. | Address                               | <b>Mr Enrico Palermo</b><br>Head, Australian Space Agency   |
| 1040 - 1050 Hrs  | Address                               | <b>Mr. Harshbir Sangha</b><br>MBE FRSA Director Missions and Capabilities<br>UK Space Agency  |
| 1050 – 1100 Hrs  | Address                               | <b>H.E. Mr. Alfonso Tagliaferri</b><br>Consul General of Italy  |
| 1100 – 1110 Hrs. | Special Address                       | <b>Dr. Pawan K Goenka</b><br>Chairman, Indian National Space Promotion and<br>Authorization Centre (IN-SPACe)                                 |
| 1110 - 1120 Hrs. | Keynote address by<br>Guest of Honour | <b>Dr. S. Somanath</b><br>Chairman, ISRO<br>Secretary, Department of Space  |
| 1120 – 1130 Hrs. | Address by Chief<br>Guest             | <b>Hon'ble Minister Shri Priyank Kharge</b><br>Minister of State of IT & BT and Science &<br>Technology, Government of Karnataka.             |
| 1130 - 1135 Hrs. | Vote of Thanks                        | <b>Mr. G Harikrishnan</b><br>Director, CBPO, ISRO   |

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1135 - 1200 Hrs  
1200- 1205 Hrs  
1205 – 1300 Hrs  
1300 – 1400 Hrs

Tea Break  
Inauguration of Exhibition  
Visit to Exhibition  
Lunch

### MAIN SESSION

Day 1- 18 September 2024, Jacaranda Hall

#### Session 1

| 1400 - 1445 Hrs  | Indian Space Reforms & Policies: Influence on Indian Space Sector                                  |  |
|--|--|--|
| <p>India's recent space reforms are reshaping its space sector by fostering greater private sector involvement and public-private partnerships. The establishment of a clear regulatory framework enhances operational clarity and safety. Increased international collaboration and investment in infrastructure are boosting India's global presence and technological capabilities. These reforms are driving innovation, expanding commercial opportunities, and positioning India as a competitive player in the global space market.</p> |  |  |
| 1400 - 1405 Hrs.   | Opening remarks & chaired by   | <b>Mr. T Victor Joseph</b><br>Associate Scientific Secretary, ISRO                       |
| 1405 - 1445 Hrs.   | Speaker/ Panelist 1  | <b>Mr. A. Arunachalam</b><br>Director, Technical & Strategy, NSIL                        |
|  | Speaker/ Panelist 2  | <b>Dr. Subba Rao Pavuluri</b><br>CMD, Ananth Technologies                                |
|  | Speaker/ Panelist 3  | <b>Mr Keyur Gandhi</b><br>Space Lawyer, Regulatory & Commercial Affairs,<br>Dhruva Space |
|  | Speaker/ Panelist 4  | <b>Mr Ashok G.V,</b><br>Lawyer, Partner, Factum Law & Allied Law Practices,<br>Bengaluru |
|  | Speaker/ Panelist 5  | <b>Mr. Vinod Chippalkatti</b><br>President, Centum Electronics                           |
|  | Speaker/ Panelist 6  | <b>Mr. Gautam Sharma</b><br>Managing Director, ViaSat                                    |
|  | Closing Remarks  | <b>Dr Shuktij Singh Rao</b><br>Executive Director, CII Digital                           |
| 1445 – 1500 Hrs  | Keynote Address/ Presentation – Indian Space Reforms and Policies: Norms Guidelines and Procedures |  |
|  | Speaker  | <b>Dr. P K Jain</b><br>Director, PMAD, IN-SPACe  |

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### Day 1- 18 September 2024, Jacaranda Hall Session 2

| 1500 - 1545 Hrs   | Exploring Sectoral Business Opportunities via Indian Space Industries                                 |  |
|---|---|--|
| <p>India's expanding space industry offers diverse business opportunities across sectors, including satellite manufacturing, launch services, and space-based data applications. Emerging private sector players and public-private partnerships are driving innovation and commercial growth. Investment in space infrastructure and technology provides a robust platform for new ventures. Leveraging India's space capabilities can unlock potential in telecommunications, earth observation, and global space markets. These opportunities present significant prospects for entrepreneurs and businesses looking to engage with the growing space economy.</p> |   |  |
| 1500 – 1505 Hrs   | Opening remarks & chaired by  | <b>Mr Rajeev Jyoti</b> ,<br>Director TD, IN-SPACe  |
| 1505 – 1545 Hrs   | Speaker/ Panelist 1   | <b>Mr. Narayan Swamy</b><br>DG, DOT  |
|   | Speaker/ Panelist 2   | <b>Mr Prateep Basu</b><br>Founder, Satsure   |
|   | Speaker/ Panelist 3   | <b>Mr Yashas Karanam</b><br>Co-founder & COO, Bellatrix Aerospace Private Ltd                |
|   | Speaker/ Panelist 4   | <b>Mr Pawan Chandana</b><br>Co-Founder, Skyroot Aerospace                                    |
|   | Speaker/ Panelist 5   | <b>Mr Laxmesh B H</b><br>Vice President, L&T   |
|   | Speaker/ Panelist 6   | <b>Mr M.V. Reddy*</b><br>Joint Managing Director, Astra Microwave Products Ltd               |
|   | Speaker/ Panelist 7   | <b>Dr. Padmakumar Nair</b><br>Director, Thapar Institute of Engineering & Technology Patiala |
|   | Speaker/ Panelist 8   | <b>Capt Vishal Kanwar (Retd.)</b><br>Managing Director, PwC                                  |
| 1600 – 1630 Hrs   | Keynote Address/ Presentation – Decisive Decade: Decadal Vision Roadmap for the Indian Space Economy. |  |
|   | Speaker   | <b>AVM D V Khot (Retd.)</b><br>Principal Consultant, IN-SPACe                                |

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### Day 1- 18 September 2024, Jacaranda Hall Session 3

| 1645 - 1730 Hrs   | Socio economic Impact of Space Technologies & Applications |  |
|---|--|--|
| <p>Space technologies are transforming our world in meaningful ways, making our lives safer, more connected, and more efficient. Imagine being able to predict severe weather accurately, giving communities time to prepare and protect themselves from disasters. This is possible thanks to satellites. Farmers can now monitor their crops from space, helping them grow more food and feed more people. High-speed internet from satellites is reaching remote areas, allowing children to learn online, patients to access telehealth, and small businesses to thrive. The innovations from space exploration, like advanced medical devices and clean energy, improve our everyday lives. The space industry also creates exciting job opportunities and fosters global collaboration. In essence, space technologies are helping us build a better, more connected world, where everyone has the chance to prosper.</p> |  |  |
| 1645-1655 Hrs   | Opening remarks & chaired by                               | <b>Mr Shantanu Bhatawdekar</b> ,<br>Scientific Secretary, ISRO   |
| 1655 - 1730 Hrs   | Speaker/ Panelist 1  | <b>Mr Rahul Vatts</b><br>Chief Regulatory Officer,<br>Public Policy, Strategy Operations OneWeb (Airtel)                 |
|   | Speaker/ Panelist 2  | <b>Mr Harish Verma</b><br>Vice President, Enterprise & Cloud, ASIA<br>SES, Singapore                                     |
|   | Speaker/ Panelist 3  | <b>Mr Arjun Goel</b><br>Director -Technical,<br>Saraswati Dynamics Private Limited                                       |
|   | Speaker/Panelist 4   | <b>Mr Suyash Singh</b><br>Founder, GalaxEye  |
|   | Speaker/Panelist 5   | <b>Mr Chirag Doshi</b><br>MD & CEO, Walchandnagar Industries   |
|   | Speaker/Panelist 6   | <b>Mr Duleesha Kulasooriya</b><br>MD SpaceTech, Deloitte, Asia Pacific   |
|   | Speaker/Panelist 7   | <b>Dr. Dhoya Snijders</b><br>Innovation Counsellor, Netherlands Embassy in India<br>Netherlands Innovation Network India |

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Day 2- 19 September 2024, Jacaranda Hall

### Session 4

| 1030 - 1115 Hrs  | Futuristic Emerging Technologies in Space: Commercial Prospects |   |
|--|---|---|
| <p>The space industry is on the cusp of a transformative era driven by futuristic emerging technologies that promise to revolutionize exploration, communication, and commercialization. Advanced propulsion systems, such as nuclear thermal and plasma propulsion, will enable faster and more efficient space travel, while artificial intelligence and machine learning will enhance autonomous navigation and data analysis. On-orbit manufacturing and robotic assembly will facilitate the construction of large structures in space, reducing reliance on Earth-based launches. Quantum technologies will provide secure communication and highly sensitive instruments for scientific discovery. Reusable launch systems will significantly lower the cost of access to space, supporting a surge in commercial activities. Sustainable space habitats and bioregenerative life support systems will enable long-duration human missions to Mars and beyond. Additionally, high-bandwidth communication networks, including laser communication and satellite constellations, will ensure global connectivity and support the growing demand for data transmission. These innovations hold the potential to dramatically expand our capabilities in space, fostering new opportunities for exploration, scientific research, and commercial ventures.</p> |   |   |
| 1030 - 1035 Hrs  | Opening remarks & chaired by                                    | <b>Dr S Unnikrishnan Nair</b><br>Director, Vikram Sarabhai Space Centre         |
| 1035 - 1115 Hrs  | Speaker/ Panelist 1   | <b>Mr. Rahul Rawat</b><br>COO, Digantara  |
|  | Speaker/ Panelist 2   | <b>Mr Nigar Shaji</b><br>Associate Director, URSC                               |
|  | Speaker/ Panelist 3   | <b>Mr Sumitesh Sarkar</b><br>Associate Director, Space Application Centre, ISRO |
|  | Speaker/ Panelist 4   | <b>Mr. Karthik Govindhasamy</b><br>Co-Founder & CTO, Antaris Space              |
|  | Speaker/ Panelist 5   | <b>Mr Rohan Ganapathy</b><br>CEO & CTO, Bellatrix Aerospace Private Limited     |
|  | Speaker/ Panelist 6   | <b>Mr. Vishesh Vatsal,</b><br>Chief of Technology, Sky Serve                    |
|  | Speaker/ Panelist 7   | <b>Mr N Balaji*</b><br>AGM, Aerospace, HAL                                      |

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|                       |                                      |  |
|-----------------------|--------------------------------------|--|
| <b>1115– 1130 Hrs</b> | <b>Keynote Address/ Presentation</b> |  |
|                       | Speaker                              | <b>Mr P Rajeev</b><br>Hon'ble Minister of Industries, Law & COIR, Kerala |

### Session 5

|   |  |  |
|---|--|--|
| <b>1130 - 1215 Hrs</b>  | <b>Space Applications for Business Growth – Leveraging GIS Solution for the Private Sector</b> |  |
| <p>Geographic Information System (GIS) technology is revolutionizing industries by providing powerful geospatial insights that drive business growth and innovation. By integrating spatial data with business intelligence, GIS enables companies to visualize, analyze, and interpret location-based information, leading to more informed decision-making. Industries such as retail, logistics, real estate, and agriculture are leveraging GIS to optimize operations, enhance customer engagement, and improve resource management. For instance, retailers use GIS to identify optimal store locations and target demographics, while logistics companies streamline supply chains by analyzing route efficiencies. Real estate firms utilize GIS for site selection and market analysis, and agricultural businesses benefit from precision farming techniques that maximize crop yields. The ability to harness spatial data through GIS not only enhances operational efficiency but also provides a competitive edge, fostering sustainable business growth and innovation across various sectors.</p> |  |  |
| 1130 – 1135 Hrs   | Opening remarks & chaired by   | <b>Mr Nilesh M Desai</b><br>Director, Space Application Centre                                   |
| 1135 – 1215 Hrs   | Speaker/ Panelist 1  | <b>Dr Prakash Chouhan</b><br>Director NRSC   |
|   | Speaker/ Panelist 2  | <b>Dr Ekroop Caur</b><br>Secretary, IT & BT and Science & Technology,<br>Government of Karnataka |
|   | Speaker/ Panelist 3  | <b>Prof Joseph Mathews</b><br>IISC Bengaluru   |
|   | Speaker/ Panelist 4  | <b>Mr Rohan Verma</b><br>CEO & Executive Director, MapmyIndia                                    |
|   | Speaker/ Panelist 5  | <b>Mr Sanjay Kumar</b><br>Founder & CEO, Geospatial World, UP                                    |



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|                 |  |   |
|-----------------|--|---|
| 1230 – 1300 Hrs | <b>Keynote Address / Presentation – Accelerating Indian Space Sector: Key Enabling Initiatives for Private Space Ecosystem</b> |   |
|                 | Speaker  | <b>Dr. Rajeev Jyoti</b><br>Director Technical, IN-SPACe |

### DAY-2 - L U N C H - B R E A K (1300-1400 hrs)

#### Session 6

|   |  |  |
|---|--|--|
| 1400 - 1445 Hrs   | <b>Future of Satellite Navigation and Communications: Global Insights on Emerging Technologies and Business Models</b> |  |
| <p>Satellite constellations, comprising networks of synchronized satellites, are making significant impacts across various aspects of our lives by delivering precise navigation and widespread communication. These constellations ensure that GPS and other global navigation systems like Galileo and BeiDou offer pinpoint accuracy for everyday activities, such as driving and mapping, as well as for critical sectors like aviation, maritime, and agriculture, enabling precision farming and efficient logistics. Communication constellations like SpaceX's Starlink and OneWeb are bringing high-speed internet to even the most remote locations, ensuring that education, healthcare, and businesses in underserved areas have the connectivity they need to thrive. This widespread access supports emergency response teams with real-time data and enables global scientific research through seamless data sharing. The advancements in satellite technology foster greater global connectivity, drive economic development, and open new opportunities for innovation, making a profound difference in how we interact with the world around us.</p> |  |  |
| 1400 - 1405 Hrs   | Opening remarks & Chaired by   | <b>Dr M Sankaran</b><br>Director, URSC                               |
| 1405 - 1445 Hrs   | Speaker/ Panelist 1  | <b>Mr Nilanjan Routh,</b><br>Chief Manager, Satellite Services, NSIL |
|   | Speaker/ Panelist 2  | <b>Mr Manish Saxena</b><br>Director, SAT-NAV, ISRO HQ                |
|   | Speaker/ Panelist 3  | <b>Mr Brajendra Urmalia</b><br>Sales Head, NELCO                     |
|   | Speaker/ Panelist 4  | <b>Mr Gaurav Kharod</b><br>Regional Vice President APAC Intel Sat    |
|   | Speaker/ Panelist 5  | <b>Mr Raju Pulgurtha</b><br>SES, Singapore                           |
|   | Speaker/ Panelist 6  | <b>Mr Arun Agarwal</b><br>DDG Satcom Department of Telecommunication |

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|  |                     |   |
|--|---------------------|---|
|  | Speaker/ Panelist 7 | <b>Mr Soren Tranberg Hansen*</b><br>Deputy Head of Mission & Science & Innovation<br>Consulate General of Denmark |
|  | Speaker/ Panelist 8 | <b>Mr Harsh Verma*</b><br>Vice President, Enterprise & Cloud, Asia,<br>SES, Singapore                             |

### Session 7

|  |   |  |
|--|---|--|
| <b>1500 - 1545 Hrs</b>   | <b>Strengthening the Space Economy – Policy &amp; Regulation Frameworks for Space Commerce, Insurance, and Financial Services</b> |  |
| Advocating smart policies in the space industry is essential for ensuring that we manage risks, support financial growth, and create a thriving commercial environment. As more countries and companies venture into space, having solid insurance policies is crucial to cover the unique risks associated with space missions. Financial services need to adapt, offering innovative funding solutions to back the ambitious projects driving the space economy. Crafting effective commercial policies helps create a stable framework that encourages investment, supports public-private partnerships, and ensures that space activities are conducted responsibly. These policies not only help secure the future of space ventures but also promote international cooperation and innovation. Ultimately, thoughtful policy advocacy can foster a dynamic and secure space industry that benefits everyone, from entrepreneurs and investors to scientists and explorers. |   |  |
| 1500 - 1505 Hrs  | Opening remarks & Chaired by  | <b>Dr M Subramanyam</b><br>JS & FA, Department of Space  |
| 1505 - 1545 Hrs.   | Speaker/ Panelist 1   | <b>Mr Jagathi Priya</b><br>Deputy Director, IN-SPACE   |
|  | Speaker/ Panelist 2   | <b>Mr Joseph Joshy</b><br>CTO & Head - FinTech & IT<br>Chief General Manager, International Financial Services Centres Authority (IFSCA) |
|  | Speaker/ Panelist 3   | <b>Mr François Chopard</b><br>Entrepreneur & Accelerator, Venture Capital, Triathlete,<br>StarBurst Aerospace, California, USA           |
|  | Speaker/ Panelist 4   | <b>Dr. Ranjana Kaul</b><br>Lawyer, Space Law Specialist  |
|  | Speaker/ Panelist 5   | <b>Mr Sumit Kumar</b><br>Chief Manager, Business Development, NSIL   |
|  | Speaker/ Panelist 6   | <b>Mr Deepak Mathur</b><br>Executive Vice President, Strategic Markets,<br>SES   |

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|                 |  |  |
|-----------------|--|--|
| 1545 – 1600 Hrs | <b>Keynote Address / Presentation- Expanding India's Commercial Space Sector Footprint Internationally</b> |  |
|                 | Speaker  | <b>Dr. Vinod Kumar</b><br>Director Promotion, IN-SPACe |

### Session 8

|   |  |   |
|---|--|---|
| <b>1600 - 1645 Hrs</b>  | <b>The Quest for Capacity – Accelerating R&amp;D, Manufacturing Capacity and Human Expertise</b> |   |
| <p>Outreach and collaboration between research and development (R&amp;D) and academic institutions are vital for advancing new space technologies and driving innovation in the industry. By fostering strong partnerships between universities, research centers, and space agencies, we can accelerate the development of cutting-edge technologies, from advanced propulsion systems to satellite communication and space exploration tools. Collaborative efforts facilitate the exchange of knowledge, resources, and expertise, enabling breakthroughs that may not be achievable in isolation. Engaging academia and R&amp;D organizations in space technology development not only supports groundbreaking research but also nurtures a skilled workforce equipped to tackle the challenges of tomorrow's space missions. This synergy between education and industry will help push the boundaries of what's possible, promote technological advancement, and position our space sector as a leader in global innovation</p> |  |   |
| 1600 - 1605 Hrs   | Opening remarks & Chaired by   | <b>Dr Vinod Kumar</b><br>Director, IN-SPACe   |
| 1605 - 1645 Hrs   | Speaker/ Panelist 1  | <b>Mr G Harikrishnan</b><br>Director, CBPO  |
|   | Speaker/ Panelist 2  | <b>Prof Preeti Aghalayam</b><br>IIT Madras  |
|   | Speaker/ Panelist 3  | <b>Prof Kuruvilla Joseph</b><br>Registrar IIST                                      |
|   | Speaker/ Panelist 4  | <b>Mr Vivekanand Pai</b><br>Vigyan Bharati  |
|   | Speaker/ Panelist 5  | <b>Thiru. Sandeep Nanduri, IAS</b><br>Managing Director, TIDCO, Govt. of Tamil Nadu |
|   | Speaker/ Panelist 6  | <b>Dr Deepti Patil</b><br>Professor, Cummins College of Engineering                 |

|                       |   |                     |
|-----------------------|---|---------------------|
| <b>1700- 1730 Hrs</b> | <b>Highlight Talk: Human Space Flight Programme</b> |                     |
|                       | Speaker   | <b>Dr DK Singh,</b> |

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|  |                |
|--|----------------|
|  | Director, HSFC |
|--|----------------|

**Day 3 - 20 September 2024, Cassia Hall**

### Session 9

| 1030 – 1130 Hrs   | <b>A Global Destiny: International Collaborations in Space Sector</b> |   |
|---|---|---|
| <p>International collaborations in the space sector are pivotal for advancing global space exploration and technology. These partnerships facilitate shared expertise, resources, and technology, enabling joint missions and research initiatives. By working together, nations can pool their strengths to tackle complex challenges, from deep space exploration to satellite technology and space science. Collaborative efforts also enhance diplomatic relations and create opportunities for commercial ventures across borders. Embracing international cooperation accelerates innovation and expands the scope of space activities, benefiting all participating countries.</p> |   |   |
| 1030 – 1035 Hrs   | Opening remarks & Chaired by  | <b>Dr A K Anil Kumar</b><br>AD, ISRO Telemetry Tracking and Command Network   |
| 1035 – 1130 Hrs   | Speaker/ Panelist 1   | <b>Dr Gowrisankar</b><br>Director, OIIC, ISRO HQ  |
|   | Speaker/ Panelist 2   | <b>Anitha Nandini,</b><br>Director, IC, DOS   |
|   | Speaker/ Panelist 3   | <b>Mr. Rakesh Bhan</b><br>Satellite Head, at TASL   |
|   | Speaker/ Panelist 4   | <b>Lt General Anil Kumar Bhatt (Retd)</b><br>Director General, Indian Space Association   |
|   | Speaker/ Panelist 5   | <b>Mr Noel Ballot</b><br>Executive Vice President – Sales & Marketing Saffran   |
|   | Speaker/ Panelist 6   | <b>Mr Ashish Saraf</b><br>VP and Country Director, India<br>Thales  |
|   | Speaker/ Panelist 7   | <b>Mr Ewout de Wit</b><br>Consul General, Consulate General of the Netherlands in India<br>Ministry of Foreign Affairs, Government of the Netherlands |

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|                      |   |  |
|----------------------|---|--|
| <b>1145-1200 Hrs</b> | <b>Keynote Presentation: Indo-Danish collaboration in space</b> |  |
|                      | Speaker   | <b>Mr SØREN TRANBERG HANSEN</b><br>SCIENCE AND INNOVATION CONSUL / DEPUTY<br>HEAD OF MISSION |

|                      |                                       |
|----------------------|---------------------------------------|
| <b>1210-1225 Hrs</b> | <b>Keynote Presentation Singapore</b> |
| <b>1230-1330</b>     | <b>Lunch</b>                          |

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## 8th edition of BSX 2024 International Conference and Exhibition 18 - 20 September 2024; Bengaluru

"Accelerating Tomorrow: Harnessing the Potential of the Space Sector for Unified Expansion"

### PARALLEL AND FOCUSED SESSIONS

#### European Space Agency Session, Parijatha Hall

Day 1- 18 September 2024  
(1400 – 1630 Hrs)

| 1400 – 1630 Hrs.  | European Space Agency Session                   |  |
|---|---|--|
| European space start-ups are seeking to team up with Indian space companies for cooperation on the commercial space market, with support of the European Space Agency |   |  |
| 1400 – 1405 Hrs   | Opening remarks & moderated by                  | <b>Mr Jean-Charles Bigot</b><br>External Relations Administrator, European Space Agency  |
| 1405 – 1630 Hrs   | Speaker/ Panelist – 1                           | <b>Mr Lars Johan Wedin</b><br>Industrial Policy Officer, European Space Agency   |
|   | Presentation by<br><b>Apogeo space Italy</b>    | <b>Mr Giulia Pompeo</b><br>Business Strategic Analyst & BID Management<br><b>Mr Jacopo Fabbri</b><br>Mechanical and Configuration Engineer |
|   | Presentation by<br><b>Riverkin Switzerland</b>  | <b>Dr. Nitin Kumar</b><br>Cofounder  |
|   | Presentation by<br><b>SpaceDreamS France</b>    | <b>Mr Maxence Bousard-Mitout</b><br>Business Development and Finance Manager<br><b>Mr Martin Lee</b><br>Head of Prospective and Strategy   |
|   | Presentation by<br><b>Zaitra Czech Republic</b> | <b>Mr Rado Pitoňák</b><br>CTO  |

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### PARALLEL AND FOCUSED SESSIONS

#### Australia Session, Cassia Hall

Day 2 - 19 September 2024  
(1030 – 1130 Hrs)

| 1030 – 1130 Hrs. | Explore the future of space with Australia |  |
|------------------|--|--|
| 1030-1130 Hrs.   | Speaker/Panelists 1                        | <b>Mr Arvind Ramana</b><br>Director of Technology Uplift, Australian Space Agency  |
|                  | Speaker/Panelists 2                        | <b>Mr Leo Bremanis</b><br>Trade and Investment Commissioner, Australian Trade and Investment Commission (Austrade) in South Asia |
|                  | Speaker/Panelists 3                        | <b>Mr Kamran Khan</b><br>Head, India, Department of State Development - Government of South Australia                            |
|                  | Speaker/Panelists 4                        | <b>Malini Dutt</b><br>A/g Trade & Investment Commissioner, Government of New South Wales   |
|                  | Speaker/Panelists 5                        | <b>Mr Nashid Choudhury</b><br>Investment and Trade Commissioner, Government of Western Australia                                 |

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**World Economic Forum Session, Parijatha Hall**

**Day 2 - 19 September 2024  
(1100 – 1230 Hrs)**

|   |  |  |
|---|--|--|
| <b>1100 – 1230 Hrs.</b>   | <b>India's Space Economy: Reaching New Heights through Strategic Vision and Innovation</b> |  |
| <p>India's space economy is on the cusp of a transformative expansion, with projections suggesting a contribution of up to \$50 billion by 2035. This growth is driven by ISRO's advancements, the strategic Decadal Plan from IN-SPACe, and increasing private sector engagement. The Decadal Plan is pivotal, fostering public-private collaborations and cost-effective technologies. Key sectors like telecommunications, defense, agriculture, and disaster management stand to benefit, while regulatory reforms are needed to balance innovation with security. With ISRO's recent milestones and the active role of startups and MSMEs, India is set to emerge as a global leader in space.</p> |  |  |
| 1100 - 1105 Hrs   | Opening remarks & moderated by   | <b>Mr Damodaran Raman</b><br>Director, Government Public Services and Space Sector, Deloitte                   |
| 1105 - 1230 Hrs   | Speaker/ Panelist 1  | <b>Rohini Srivathsa</b><br>National Technology Officer (CTO) & Strategy Lead – Microsoft Corporation           |
|   | Speaker/ Panelist 2  | <b>Mr Awais Ahmed</b><br>Founder and Chief Executive Officer, Pixxel   |
|   | Speaker/ Panelist 3  | <b>Mr Susmita Mohanty</b><br>Director-General, Spaceport SARABHAI  |
|   | Speaker/ Panelist 4  | <b>Mr Nobu Okada</b><br>Chief Executive Officer, Astroscale Holdings Inc.                                      |
|   | Speaker/ Panelist 5  | <b>Mr Takeshi Hakamada</b><br>Founder and Chief Executive Officer, ISPACE Inc                                  |
|   | Speaker/ Panelist 6  | <b>Mr Jamie Morin</b><br>Executive Director, Center for Space Policy and Strategy<br>The Aerospace Corporation |
|   | Speaker/ Panelist 7  | <b>Mr Jeffrey Manber</b><br>President International and Space Stations, Voyager Space                          |
|   | Speaker/ Panelist 8  | <b>Mr Helene Huby</b><br>Co-founder and CEO, The Exploration Company GmbH                                      |



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|  |                      |   |
|--|----------------------|---|
|  | Speaker/ Panelist 9  | <b>Mr Mishaal Ashemimry</b><br>Managing Director, C4IR Center for Space Futures, Saudi Space Agency |
|  | Speaker/ Panelist 10 | <b>Mr Takumi Hashizume</b><br>Managing Director, Head of Space MUFJ (Mitsubishi UFJ)                |
|  | Speaker/ Panelist 11 | <b>Dr Ekroop Caur</b><br>Secretary ITBT, Govt of Karnataka  |

### UK Session, Cassia Hall

Day 2- 19 September 2024  
(1200 – 1300 Hrs)

|                        |  |   |
|------------------------|--|---|
| <b>1200 - 1300 Hrs</b> | <b>India &amp; UK: Forging New Space Opportunities</b>             |   |
| 1200 - 1215 Hrs.       | Welcome Address  | <b>Mr Harshbir Sangha MBE FRSA</b><br>Director Missions and Capabilities<br>UK Space Agency                 |
| <b>1215 – 1300 Hrs</b> | <b>UK Space: Capability, Ecosystem &amp; Global Collaborations</b> |   |
|                        | Speaker/ Panelist 1  | <b>Mr Ajita Hathlia</b><br>Deputy Director, Trade & UK Exports, South Asia<br>Department for Business Trade |
|                        | Keynote Presentation-1   | <b>Teledyne e2v</b>   |
|                        | Keynote Presentation-2   | <b>Durham University</b>  |
|                        | Keynote Presentation-3   | <b>Cambridge Vacuum Engineering</b>   |
|                        | Keynote Presentation-4   | <b>BAE Systems</b>  |
|                        | Keynote Presentation-5   | <b>Bright Ascension</b>   |
|                        | Keynote Presentation-6   | <b>LDRA</b>   |
|                        | Keynote Presentation-7   | <b>Methera Global</b>   |
|                        | Closing Address  | <b>Mr Niall Ahern</b><br>First Secretary - Space<br>Department for International Trade – India              |

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### Startup Investor Meet, Cassia Hall Day 2- 19 September 2024 (1400 – 1630 Hrs)

|                  |   |   |
|------------------|---|---|
| 1400 – 1730 Hrs. | <b>Investing in Infinity: The Investor Start-up Congress</b>  |   |
|                  | With the initiation of Space Reforms, the Government of India has ushered in a new era of economic abundance by unleashing the power of the private sector in the Indian space sector. The entrepreneurial energy, innovative spirit, and enthusiasm of the non-governmental entities (NGEs) are visible in the skyrocketing number of Indian startups entering the space sector across the entire range of activities. To unlock the potential of the Indian Space Sector, substantial investments are required at this crucial juncture to fuel innovation, accelerate Design & Development & scale up manufacturing capacities. The Indian Space economy is at a point of inflexion, offering a first-mover advantage to investors in an increasingly competitive global environment. Awareness of global and regional trends in the space economy and the expanding capabilities of Indian companies are necessary for investors to make informed and confident decisions. 'The Investor – Space Start-up Congress', curated by INSPACE, is a unique event designed to achieve a deeper all-around understanding of the space economy, elevate investor confidence, and facilitate a face-to-face connection with the Indian Space Startups. IN-SPACE is committed to creating a thriving Indian space ecosystem by accelerating private sector growth to achieve its Decadal Vision objectives. This event is intended to be a catalyst in forging enduring partnerships that will unlock new frontiers in the Indian Space Economy. |   |
| 1400 - 1402 Hrs  | Opening Remarks   | <b>Dr. Shuktij Singh Rao</b><br>Executive Director CII Digital                            |
| 1402 - 1407 Hrs  | Welcome and Introduction  | <b>AVM D V Khot Rtd.</b><br>Principal Consultant, In-SPACE                                |
| 1407 - 1415 Hrs  | Keynote Address   | <b>Dr. Pawan Kumar Goenka</b><br>Chairman IN-SPACE  |
| 1415 - 1515 Hrs  | <b>Panel Discussion: "Investing in the Indian Space Sector: Opportunities, Challenges, and the Future"</b>  |   |
|                  | Moderator   | <b>Mr K Mukundan</b><br>Senior Principal, Strategic Initiatives and Policy Advisory, NIIF |
|                  | Speaker/Panelist 1  | <b>Mr Vishesh Rajaraman</b><br>Managing Partner, Speciale Invest                          |
|                  | Speaker/Panelist 2  | <b>Mr Rama Bethmangalkar</b><br>Director, Qualcomm Ventures                               |

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|                        |   |   |
|------------------------|---|---|
|                        | Speaker/Panelist 3  | <b>Mr Lochan Sehra (IAS)</b><br>Joint Secretary, IN-SPACe   |
|                        | Speaker/Panelist 4  | <b>Mr Vipul Patel</b><br>Partner, Seed Investing, IIM-A Ventures                                  |
|                        | Speaker/Panelist 5  | <b>Mr Mayank Rawat</b><br>Managing Director, Government of Singapore Investment Corporation (GIC) |
|                        | Speaker/Panelist 6  | <b>Mr Satya Prakash Singh</b><br>Chief General Manager, SIDBI                                     |
|                        | Speaker/Panelist 7  | <b>Arijit Dutta</b><br>General Manger, SIDBI  |
| <b>1515 - 1545 Hrs</b> | <b>Fireside Chat: "Reaching for the Stars: Business case for NewSpace Future"</b> |   |
|                        | Host  | <b>Mr Pratip Majumdar</b><br>Co-Founder & Partner, Inflexor Ventures                              |
|                        | Guest Speaker   | <b>Mr Nikolai Khlystov</b><br>Lead for Space, World Economic Forum                                |
| <b>1545 - 1615 Hrs</b> | <b>Networking Break: Tea &amp; Coffee</b>   |   |

|                         |  |   |
|-------------------------|--|---|
| <b>1615 - 1725 Hrs</b>  | <b>Startup Session- "Intrepid Endeavors: The Indian Space-Tech Startups"</b> |   |
|                         | <b>Moderator</b>   | <b>Mr Swarup Pandya</b><br>Manager-Seed Acceleration, IIMA Ventures                   |
|                         | Presentation - 1   | Launch Systems: <b>Mr Pawan Kumar Chandana</b><br>Co-Founder & CEO, Skyroot Aerospace |
|                         | Presentation - 2   | Satellite Manufacturing: <b>Mr Suyash Singh</b><br>Founder, GalaxEye                  |
|                         | Presentation - 3   | Ground Segment: <b>Mr Navneet Singh</b><br>CEO, Kepler Aerospace                      |
|                         | Presentation - 4   | Downstream Applications: <b>Mr Prateep Basu</b><br>CEO & Co-Founder, SatSure          |
|                         | Presentation - 5   | In-Orbit Economy: <b>Prof. Arindrajit Chowdhury</b><br>Founder, Inspecity             |
| <b>1725 - 1730 Hrs.</b> | Summary & Closing Remarks  | <b>AVM D V Khot</b><br>Principal Consultant, IN-SPACe                                 |

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### Italy Session, Parijatha Hall

Day 2- 19 September 2024  
(1400 – 1500 Hrs)

| 1400 - 1500 Hrs | Italy-India Space Synergies: Innovations, Opportunities and Collaborations. |   |
|-----------------|---|---|
| 1400 - 1405 Hrs | Opening remarks & moderated by  | <b>Ms. Leorith Elijah</b><br>Bengaluru ITA Desk Office  |
| 1405 - 1500 Hrs | Speaker/ Panelist 1   | <b>Cooperation between Italy and India in the space sector</b><br><b>H.E. Mr Alfonso Tagliaferri</b><br>Consul General, Italy   |
|                 | Speaker/ Panelist 2   | <b>Strengthening Space Research for a Future of Innovation and Growth</b><br><b>Dr. Sergio Ledda</b><br>Scientific Attache, Embassy of Italy. New Delhi               |
|                 | Speaker/ Panelist 3   | <b>The Italian Space Industry: opportunities of collaboration with India</b><br><b>Ms. Antonietta Baccanari</b><br>Trade Commissioner, Italian Trade Agency           |
|                 | Speaker/ Panelist 4   | <b>Leonardo, A Global Player, In the Space Domain</b><br><b>Mr. Roberto Pierdominici</b><br>Managing Director, Leonardo Aerospace Defense and Security India Pvt. Ltd |
|                 | Speaker/ Panelist 5   | <b>Shaping EMSO in Space</b><br><b>Mr. Roberto Simonetti</b><br>Chief Representative Officer India, ELT Group   |
|                 | Speaker/ Panelist 6   | <b>Optical Ground Station (OGS) for the future of Space Economy</b><br><b>Mr. Gino Buccioli</b><br>VP Business Development , Officina Stellare Spa                    |
|                 | Speaker/ Panelist 7   | <b>Metal Rolling Solutions For The Aerospace</b><br><b>Mr. Marco Guidi</b><br>Sales Manager India, Davi Promau  |
|                 | Closing Remarks & Q&A   | <b>Q&amp;A</b><br><b>Ms Leorith Elijah</b>  |