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National Institution for Transforming India



India Space Congress 2022

PROGRAM SCHEDULE

Leveraging Space to Power Next-Gen Communication & Businesses

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INDIA SPACE CONGRESS 2022 - PROGRAM

'Leveraging Space to Power Next-Gen Communications & Businesses'

Start	End	Dur	Day 1: 26th October 2022, Wednesday Hotel Le Meridien, New Delhi
09:00	11:40	02:40	Opening Plenary (Sovereign 1&2)
			Welcome Address: Dr. Subba Rao Pavuluri, President, SIA-India & CMD Ananth Technologies Pvt. Ltd
			Industry Keynote: Accelerating the Space Economy – Mr. Nathan De Rooter, Managing Director, Euroconsult
			Industry Keynote: Mr. Deepak Mathur, EVP Global Sales Video-SES
			Special Address: Honorary Dr. Mike Short CBE, Chief Scientific Advisor, Department of International Trade, UK
			Special Address: Shri. A. S. Kiran Kumar, Member Space Commission, Former Secretary, Department of Space & Chairman ISRO
			Special Address: Shri. K. Rajaraman, Chairman, DCC & Secretary Telecom
			Special Address: Dr. Somanath S, Chairman, Space Commission; Secretary, DoS and Chairman ISRO
			Special Address: Shri Om Prakash Sakhlecha, Hon'ble Minister – Science & Technology, Government of Madhya Pradesh
11:40	12:10	00:30	Networking Tea Break

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Start	End	Dur	Day 1: 26th October 2022, Wednesday Hotel Le Meridien, New Delhi			
Hall			Sovereign 1	Sovereign 2	Desire	Inspire
12:10	13:30	01:20	<p>India's Space Strategy for future: Turning vision into action</p> <p>India's aspiration to stake its rightful claim in the global space economy needs to be backed up by a strategy detailing the broad direction for the space industry and spectrum usage.</p> <p>Chair & Moderator: Mr. A. S. Kiran Kumar, Member Space Commission Former Secretary Department of Space and Chairman, ISRO</p> <p>Keynote: Mr. Luigi Scatteia, Partner, PwC Global Space Practice Leader</p> <p>Speakers:</p> <ul style="list-style-type: none"> Prof. Sachin Chaturvedi, Director General, Research and Information Systems, India Dr. Ajey Lele, Consultant, Manohar Parrikar -Institute for Defence Studies and Analyses (MP-IDSA) Dr Subba Rao Pavuluri, President, SIA-India & CMD Ananth Technologies Pvt. Ltd Mr. Girish Chandran, Vice President & CTO, Viasat Inc. 	<p>Space Missions: Modelling and Risk Mitigation</p> <p>Developments in computing, modelling and simulation allow us to understand complex system behaviour, especially for space systems that are expected to perform in environments different from the engineering facilities on earth. This allows risk mitigation and performance to expectations for missions in space, be it launch or space assets.</p> <p>Chair: Mr. E. S. Padmakumar, Associate Director (Projects), VSSC</p> <p>Keynote Address: Ms. Renuka Srinivasan, Brand Sales Director, SIMULIA for Dassault Systèmes India</p> <p>Moderator: Mr. Kartik Kumar, CEO, Satsearch</p> <p>Speakers:</p> <ul style="list-style-type: none"> Ms. Renuka Srinivasan, Brand Sales Director, SIMULIA for DassaultSystèmes India Mr. Karthik Govindhasamy, Co-Founder & CTO, Antaris Inc. Dr Dibyendu Nandi, Head, Centre of Excellence in Space Science, Indian Institute of Science Education and Research (IISER) Kolkata 	<p>Talking to Machines - Satellites for IoT, Drone and Autonomous vehicles</p> <p>The common trait across IoT sensors, Drone communications and communication for Autonomous vehicles is their need for communication that the limited reach of terrestrial communication cannot provide. While IoT sensors abound and create a huge value in mining, agriculture, industry, national security, etc that are a non-urban phenomenon, the role of satellite communication for beyond line of sight communications to man and machine is unquestionable. The session explores a roadmap to solutions for a cooperative network of autonomous vehicles, Drones, IoT Sensors and satellites.</p> <p>Chair & Moderator: Dr. PSR SrinivasaSastry, Director, DSP, DRDO</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Arunprakash Jayaprakash, Satellite Application Catapult Mr. Sajid Mukhtar, Chairman, RoterGroup Mr. Pradyumna Vyshnav, TechnicalProgram Manager, Mach33 Aero Mr. D S Govindrajan, President, Aniara Space 	<p>Pushing the boundaries on Satellite Remote Sensing</p> <p>From extending the satellite imaging capabilities with wider spectral range to remote sensing through advanced SAR techniques and Electromagnetic spectrum sensing, the new players are also pushing the boundaries on payload SWAP features and revisit rates.</p> <p>Chair & Moderator: Mr. Rajeev Jyoti, Director TD, IN-SPACe</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Scott Larson, CEO & Co-Founder, Space Alpha Dr. Rao Ramayanam, SeniorSales Executive-International, Hawkeye360 Lt Col Amandeep Singh, Strategic Image Analyst & Spatial Domain Author Mr. Kshitij Khandelwal, Founder & CTO, Pixxel Mr. Denil Chawda, Cofounder & CTO, GalaxEye Mr. Vinay Simha, Co-Founder and CEO Skyserve.ai
13:30	14:40	01:10	Networking Lunch Break			

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Start	End	Dur	Day 1: 26th October 2022, Wednesday Hotel Le Meridien, New Delhi			
14:40	16:00	01:20	<p>Decoding the Space Economy</p> <p>Each year multiple consultancies come out with numbers to quantify the global space economy. The divergence in numbers from all points is needed for evolving a quantifying framework that is consistent and granular for verticals and geographies. A discussion by economists to consider the methodology for India.</p> <p>Keynote & Moderator: Mr. Jose DelRosario, Research Director, NSR</p> <p>Speakers:</p> <ul style="list-style-type: none"> Prof Vinay K Dadhwal, Indira Gandhi Chair Professor for Environmental Sciences, National Institute of Advanced sciences. Prof. Sunil Mani, Director and Professor, Reserve Bank of India Chair, Center for Development Studies (CDS) Mr. Sreeram Ananthsayanam, Partner, Deloitte Touche Tohmatsu India LLP Mr. Saurabh Kapil, Associate Director, PwC - Space Practice 	<p>In-Orbit Technologies</p> <p>From solutions for increasing life expectancy of satellites by refueling to in-orbit servicing, Orbital transfers and collision avoidance services through SSA and STM, and further deorbiting & space debris removal, there are opportunities galore to service these business requirements.</p> <p>Moderator: Mr. Chethan Kumar, Assistant Editor, The Times of India</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Piyush Dhaundiyal, Director & GM India, Space Machines Co. Air Cmde Terry van Haren (Retd.), Managing Director, Leolabs Mr. Rohan M. Ganpathy, CEO & CTO, Bellatrix Aerospace, Mr. Tanveer Ahmed, Co-Founder & CTO, Digantara Mr. Ashtesh Kumar, CTO, ManastuSpace Mr. Navin Gopal, Head of Strategy and Business Analysis, Astroscale 	<p>Growth and Diversity of Satcom</p> <p>The complementarity between NGSO and GSO brings to fore an interesting proposition for all downstream applications. The experts will discuss the current and future trend, various applications and the challenges.</p> <p>Chair & Moderator: Mr. Hanumantha Rayappa, Director, Satcom PO, ISRO</p> <p>Keynote: Mr. Deepak Mathur, Executive Vice President, Global Sales, SES Satellites.</p> <p>Keynote: Mr. Girish Chandran, Vice President & CTO, Viasat Inc.</p> <p>Speakers:</p> <ul style="list-style-type: none"> Dr. Laura Roberti, Director for Spectrum and Market Access Telesat Mr. Deepak Mathur, EVP Global Sales Video-SES Mr. Shivaji Chatterjee, EVP & Business Head, Hughes Communications India Ltd. Mr Vivek S Prasad, Sr Analyst, NSR, Ex ISRO Scientist Mr. Girish Chandran, Vice President & CTO, Viasat Inc. 	<p>Leveraging Data from Space</p> <p>The earth's value chain is inextricably linked and extended to space. The question however is how many stakeholders across agriculture, industries, fisheries, mining, logistics etc are truly leveraging the capabilities for this value. Stakeholders who have 'been there, done that' discuss their learnings and ideas to scale these successes across segments.</p> <p>Chair: Dr. T Ravisankar, Deputy Director, Bhuvan Geoportal & Web Services Area (BG&WSA), NRSC</p> <p>Moderator: Lt. Gen (Dr.) AKS Chandele, President-Defence, Internal Security & Public Safety, Geospatial World.</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Arvind Pandey, Director, Ministry of Commerce & Industry, DPIIT. Mr. Pankaj Mishra, Deputy Surveyor General at Survey of India Ms. Devleena Bhattacharjee, Founder & CEO, Numer8 Analytics Mr. Arpan Sahoo, COO, KaleidEO aSatSure company Mr. Adithya K, Co-founder and Chief Product Officer, SkyServe
16:00	16:30	00:30	Networking Tea Break			

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Start	End	Dur	Day 1: 26th October 2022, Wednesday Hotel Le Meridien, New Delhi
16:30	17:15	00:45	<p>Turning the spotlight on Mission DefSpace – Defence India Start-up Challenge (DISC 8) iDEX Prime (Space)</p> <p>Mr. Vivek Virmani, COO, Defence Innovation Organisation, iDEX Mr. Mudit Narain, Advisor DIO/iDEX</p> <p>Mr. Vish Sahasranam, Co-Founder & CEO, Forge and Advisor iDEX</p>
			Closing Session: Sovereign 1&2
17:15	18:00	00:45	<p>Demystifying U.S. Export Control Regulations ITAR and EAR for the Indian Space Sector</p> <p>Mr. Jason Chauvin, U.S. Department of Commerce, Bureau of Industry and Security (BIS). Mr. Alex J. Douville, Division Chief, Directorate of Defense Trade Controls, Department of State Moderated by Dr. Susmita Mohanty, Director General, Spaceport SARABHAI</p> <p>Summing up the day’s proceedings: Mr. Ravi Ailawadhi, Director and Board Member, SIA-India</p>

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Start	End	Dur	Day 2: 27th October 2022, Thursday at Hotel Le Meridian, New Delhi			
09:00	10:30	01:30	Opening Plenary			
			Welcome Address: Dr Subba Rao Pavuluri, President, SIA-India & CMD Ananth Technologies Pvt. Ltd			
			Industry Keynote: Mr Pranav Roach, President, Hughes Network Systems			
			Keynote: Shri Arvind Kumar, Director General, STPI			
			Special Address: Shri S. Unnikrishnan Nair, Director, VSSC			
			Special Address: Shri. AK Tiwari, Member (T), Digital Commission, Ministry of Communication, Govt. of India			
			Opening Address: Shri Rajeev Chandrasekhar, Union Minister of State for Entrepreneurship, Skill Development, Electronics & Information Technology (Chief Guest)			
Hall			Sovereign 1	Sovereign 2	Desire	Inspire
10:30	11:20	00:50	<p>Power Session: Space Investment Outlook and Funding for New Ventures</p> <p>Recent investment trends in the commercial space market and how that will impact the immediate and long-term future of the industry followed by a discussion that spotlights on the fund-raising efforts of the new space entrepreneurs for innovation, productization and scaling including best practices, and how to align with the financier's investment objective</p> <p>Keynote: Mr. Joseph Joshy, CTO (IT & Fintech), International Financial Services Centres Authority</p> <p>Moderator: Mr. Nathan De Ruiter, Managing Director, Euroconsult</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Joseph Joshy, CTO (IT & Fintech), International Financial Services Centres Authority Mr. Jacob Poulouse, COO, Mach33 Aero Mr. Justin Bharucha, Managing Partner, Bharucha & Partners Mr. Benjamin Zeitoun, Investor, Starburst Ventures Mr. Govind Rajan, President, Aniara Communications Dr. Susmita Mohanty, Director General, Spaceport SARABHAI 	<p>Satellites in Mobility</p> <p>There is a significant increase in demand and applications for connectivity on the move at air, sea and land that can best be served by satellites including direct to handset. The regulatory and technology issues around these will determine the successful capturing of these markets.</p> <p>Chair & Moderator: Dr. VS Hegde, Former Scientific Secretary to ISRO and CMD, Antrix</p> <p>Keynote: Mr. Sherille Ismail, Associate General Counsel, Intelsat</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Sherille Ismail, Associate General Counsel, Intelsat Dr. Laura Roberti, Director for Spectrum and Market Access, Telesat Mr. Shivaji Chatterjee, EVP & Business Head, Hughes Communications India Ltd. Mr. Jose Del Rosario, Research Director, NSR Mr. Harsh Verma, Vice President, Sales Asia, SES Mr. Brajendra Bhuwan Urmalia, Product head - IFMC Business, Nelco Ltd 	<p>Human Space flights and deep space opportunities</p> <p>A chat with leaders at ISRO on their projects for Gaganyaan, Deep space missions and how the industry can benefit with participation opportunities</p> <p>Chair: Mr. R Umamaheswaran, Director Human Space Flight Centre, ISRO</p> <p>Moderator: Dr. Chaitanya Giri, Space Consultant, RIS</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. R. Hutton, Project Director, Gaganyaan, ISRO Mr Akshat Mohite, Co-Founder and CEO, Astroborne Defence & Technologies Mr. Paul Febvre, CTO, Satellite Applications Catapult Mr. George Weinmann, Sr. Director, Orbital Reef Enterprise Development, Blue Origin Mr. B M Raghavendra, Sr. Deputy General Manager, Missiles and Aerospace Business, L&T 	
11:20	11:50	00:30	Networking Tea Break			

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Start	End	Dur	Day 2: 27th October 2022, Thursday at Hotel Le Meridian, New Delhi			
11:50	13:10	01:20	<p>Building an Innovation Ecosystem through Space Clusters</p> <p>How can a cross-disciplinary approach to innovation be nurtured to strengthen the space sector? Harwell is looked upon as a success story for building a catalytic ecosystem for new space, old space, academia and innovations to come together. How are the Space parks in India approaching this issue?</p> <p>Chair & Moderator: Mr. Paul Febvre, CTO, Satellite Applications Catapult, UK</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. T. Anil Kumar, CEO, APIS, Govt of Andhra Pradesh Mr. Abhishek Tiwari, Associate Director, KPMG and Lead Advisor, StartInUP Program, Government of UP Mr. Mudit Narain, Consultant, Foundation for Advancing Science and Technology 	<p>Space: Industry Alliances</p> <p>Following up on the India-U.S. 2+2 Ministerial Dialogue that pledged to expand bilateral space cooperation and building of robust private industry collaboration in Space and Defence, the industry needs to take up the baton.</p> <p>Moderator: Mr. Aditya Kaushik, Director, Digital Economy & Strategic Technologies</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Dustin Bickel, Political/Economic Consul, US Consulate General Chennai, India Mr. George Weinmann, Sr. Director, Orbital Reef Enterprise Development, Blue Origin Mr. William Blair, Chief Executive, Lockheed Martin India Mr. Samit Ray, Director Government Affairs, Raytheon Mr. Amitabh Ghoshal, Vice President India Operations, L3Harris Technologies Mr. Abhishek Malhotra, Founder & Partner, TMT Law Ms. Kriti Upadhyay, Founder, Indus Tech Council 	<p>Satellites in the 5G Era & Beyond</p> <p>Global leaders will discuss a blueprint for future scenarios for satellite communication systems in the face of accelerating changes brought about by deployment of mega constellations, the integration of satellite-terrestrial systems, and implementation of cutting-edge technologies. A more holistic and standardized approach is required towards a fully integrated solution combining satellite and terrestrial IMT integrated networks, whereby the air interface can be common for terrestrial wireless (B/S to UEs & vice versa), earth-to-space, space to earth, inter-satellite links.</p> <p>Chair: Mr. Anupam Shrivastava, Former CMD, BSNL</p> <p>Moderator: Prof Abhay Karandikar, Director, IIT Kanpur</p> <p>Speakers:</p> <ul style="list-style-type: none"> Mr. Harvinder Nagi, Senior Systems Architect - Future Networks, Satellite Applications Catapult, UK Mr. Ajmair Heer, Sales Director, Asia-Pacific, Astranis Mr. Raghu Das, CEO, Aniara Space Abheek Saha, Chief Engineer and Head of the Networking and Wireless CoE at Hughes Systique Corporation. 	<p>Pitch right for skyrocketing Start-ups</p> <p>An opportunity for Space entrepreneurs including the ones on the fence, whether you're into launch capabilities, Satellite systems that bring unique advantages, building communications or remote sensing satellite constellations, generating insights from space-based data or even working on space sustainability. The participants get to develop relationships with a global network of key decision-makers driving innovation and economic change in SpaceTech, validating their opportunities, and accelerating their businesses.</p> <p>Moderator: Shagun Sachdeva, E2MC Ventures</p> <p>Jury:</p> <ul style="list-style-type: none"> Mr. Vivek Virmani, CEO-iDEX Dr. Vinod Kumar, Director, IN-SPACE Mr. Benjamin Zeituon, Investor, Starburst Ventures Mr. Rahul Seth, Investor and Director, Antler Mr. Raghu Das, Venture Partner, E2MC <p>Observers:</p> <ul style="list-style-type: none"> Mr. Vinod Sood, Managing Director, Hughes Systique Corporation Dr. N. Ranjana, Director DSTA, DRDO Mr. Kiran C Kalluri, Venture partner, Dallas Venture Capital Cmdr Jadumani Jena, Defence & SpaceExpert, Advisor-SIA India Ms. Nayani Nasa, Strategic Alliances Specialist, Microsoft <p>Speakers:</p> <p>5 Pitch Contestant Finalists</p>
13:10	14:40	01:20	Networking Lunch Break			

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Start	End	Dur	Day 2: 27th October 2022, Thursday at Hotel Le Meridian, New Delhi			
14:40	16:00	01:20	<p>Leveraging Industry Base for National Space Capabilities</p> <p>India Needs a Dedicated National Strategy for Space Technologies and Manufacturing. R&D and Manufacturing of space-grade electronics and new age satellite constellations and user terminals. Indian regulatory framework required to ease the space businesses by promoting competition and providing legal certainty. of space sector manufacturing.</p> <p>Chair: Mr. Radhakrishnan Durairaj, CMD, NSIL</p> <p>Moderator: Mr. Shashank Tripathi, Former Advisory Partner PwC</p> <p>Advisor, Aerospace and Defence</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. B M Raghavendra, Sr. Deputy General Manager, Missiles and Aerospace Business, L&T • Mr. Anurag Garg, Chief Strategy & Marketing Officer, Thales India • Mr. Ramesh Sankaran, Godrej Aerospace • Dr Subba Rao Pavuluri, CMD Anath Technologies Ltd. 	<p>International Collaboration</p> <p>Key officials from National Space Agencies highlight opportunities for collaboration between the industries of the nations and the benefits the respective industries derive out of such inter-governmental space bridge.</p> <p>Chair: Mr. R Umamaheswaran, Director Human Space Flight Centre, ISRO</p> <p>Keynote: Honorary Dr. Mike Short CBE, Chief Scientific Advisor, Department of International Trade, UK</p> <p>Moderator: Ms. R Anitha Nandhini, Director Int. Cooperation & Policy, DOS</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Harshbir Sangha, Director Growth, UK Space Agency • Ms Harriet Brettle, Head of Market Analysis and Business Intelligence, European Space Agency • Mr. Mahadevan Shankar, Director, Arzuh International Pty Ltd and National Convenor of Defence Working Group in the Australia India Chamber of Commerce (AICC) • Mr. Dmitrii Loskutov, Director General JSC Glavkosmos • Mr. Mathieu Weiss, Counsellor (Space), Embassy of France, India. • Dr. Jukka Holappa, Commercial Counsellor, Country Director India at Business Finland • Dr. Vinod Kumar, Director PD, IN-SPACE 	<p>A balanced approach to Spectrum Allocation</p> <p>Increased demand for connectivity makes efficient spectrum use critical in this day and age of easy communication. The upcoming terrestrial (5G/IMT, Wi-Fi 6/6E etc.) and non-terrestrial technologies (HTS/VHTS/UHTS Satellites in LEO, MEO and GEO orbits) have intensified the need to access spectrum in different bands. This calls for well-planned strategic decisions in identifying the spectrum for these diverse technology options and allocation methodologies.</p> <p>Chair: Mr. R K Saxena Wireless Advisor to GoI, WPC, DoT</p> <p>Moderator: Ms. Aarti Holla-Maini, Secretary General, GSOA</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Rajeev Kumar, Director Engineering, Prasar Bharti • Dr. Laura Roberti, Director for Spectrum and Market Access, Telesat • Dr. Mahesh Uppal, Director Com First • Mr. Tony Azzarelli, Founder, Access Space Alliance • Mr. Bharat Gupta, Head of Corporate Affairs, Sterlite Technologies Ltd 	<p>Inspiring and Skilling for tomorrow's workforce</p> <p>Actionable for Capacity Building in the Space Sector in India at national, regional, and global levels. A discussion between Academia, Industry and Government to promote space related R&D for commercial space innovation.</p> <p>Chair & Moderator: Dr. Sudheer Kumar N, Director, CBPO, ISRO</p> <p>GVF Trainings Workshop: Mr. Riaz Lamak, GVF</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Ms. Leena Bokil, Founder, Astro-EDU • Wg Cdr Rachit Bhatnagar, CEO, AASSC • Prof. (Dr.) S.O. Junare, Campus Director, NFSU, Delhi • Dr. Sanat K Biswas, Assistant Professor, IIIT Delhi • Mr. Riaz Lamak, Global VSAT Forum
16:00	16:30	00:30	Networking Tea Break			
Closing Plenary						
16:30	17:30	01:00	<p>Dialogue on Satellite role in Disaster management and resilient infrastructures</p> <p>Shri. Kamal Kishore: Member Secretary, NDMA and Co-Chair, CDRI</p> <p>Ms Harriet Brettle, Head of Market Analysis and Business Intelligence, European Space Agency</p> <p>Mr. Riaz Lamak, Lead, GVF International Programmes, Global VSAT Forum</p> <p>Moderated by Ms. Aarti Holla-Maini, Secretary General, GSOA</p> <p>Summing up day's proceedings: Mr. Pawan Kapur, Board Member, SIA-India</p>			

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Start	End	Dur	Day 3, 28 th October 2022, Friday at Hotel Le Meridian, New Delhi			
09:00	10:30	01:30	Opening Plenary			
			Welcome Address: Dr. Subba Rao Pavuluri, President SIA-India & CMD Ananth Technologies Ltd.			
			Special Address: Shri Sanjay Jaju, Additional Secy, Dept of Defence Production			
			Special Address: Shri. Mayank Kumar Agrawal, CEO, Prasar Bharati			
			Special Address: Shri. Apurva Chandra, Secretary, I&B, Ministry of MIB			
			Special Address: Shri, Rajesh Bhushan, Secretary Ministry of Health and Family Welfare, Govt. of India			
			Special Address: Dr. G Satheesh Reddy, Scientific Advisor to Raksha Mantri, Ministry of Defence			
Hall			Sovereign 1	Sovereign 2	Desire	Inspire
10:30	11:25	00:55	<p>Power session: Space: The Fourth Frontier of Warfare</p> <p>The strategic edge that the satellites bring with Satellite Intelligence, full situational awareness and always connected man and machine to the defence needs will be discussed with the strategic importance and urgency of each solution in the operational theatre.</p> <p>Chair & Moderator: Lt. Gen Vinod G. Khandare, Sr. Advisor, Ministry of Defence</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Lt. Gen PJS Pannu (Retd), Former Deputy Chief, IDS and Distinguished Fellow USI • Air Marshal Gurcharan Singh Bedi, AVSM, VM, VSM (Retd.), Former DirectorGeneral (Inspection & Safety) • Lt Gen MU Nair, AVSM, SM, SO-in-C • Air Vice Marshal D. V. Khot, Director General, Defence Space Agency • Vice Admiral G. Ashok Kumar, NSCS • AVM Rajiva Ranjan, Integrated Defence Services • Mr. Venkat Katkuri, Head of Airbus, Defence & Aerospace, India 	<p>Emerging Multimedia Broadcasting (BSS) Solutions</p> <p>Satellites have been the backbone of TV channel distribution worldwide, and much more significantly for the Indian TV and media industry. The changing landscape, however, drives the satellite operator to offer new media solutions</p> <p>Chair & Moderator: Mr. Sunil, Addl Director General, Prasar Bharti</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Ben Vine, Vice President, Sales APAC & Head of Solution Sales, Emerging Markets, SES • Mr. Gaurav Kharod, Managing Director, Sales, Intelsat • Mr. M. N. Vyas, Executive Director, Planetcast 	<p>Spacecraft Design, Production and Mission Success</p> <p>The discussion extends the discussion from design, production, testing to include the registration of Smallsats with ITU through In-Space</p> <p>Chair: Dr. P. K. Jain, Director PMAD, IN-SPACE</p> <p>Keynote: Mr. Karthik Govindasamy, Co-Founder & CTO Antaris Inc.</p> <p>Moderator: Mr. Tony Azzarelli, CEO, Access Space Alliance</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. Raghava Murthy, Adjunct Professor and Advisor to CSR, LPU • Mr. Karthik Govindasamy, Co-Founder & CTO Antaris Inc. • Mr. Sanjay Nekkanti, CEO, Dhruva Space • Dr. PVGS Jayaram, CEO & Advisor Technology, PVGS Consultants • Mr. Rupesh Kumar, CEO, XDLINX Labs 	

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Start	End	Dur	Day 3, 28 th October 2022, Friday at Hotel Le Meridian, New Delhi			
11:25	11:50	00:25	Networking Tea Break			
11:50	01:20	01:20	<p>Navigating the Laws for Space Business in India</p> <p>The overall regulatory framework, both domestic and international, is what enables businesses to thrive. This session brings forth the critical aspects for space businesses, for large organizations and start-ups, to be aware of while making business plans, running the business and/or new models for businesses</p> <p>Keynote & Moderator: Mr. Abhishek Malhotra, Founder & Partner, TMT Law.</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. Ranjana Kaul, Partner at Dua Associates, Advocates & Solicitors • Mr. GV Ashok, Partner, Factum Law • Mr. Keyur Gandhi, Head Regulatory, Dhruva Space. • Mr. Rahul Goel, Partner, Anant Law • Mr. Arjun Sinha, Partner, AP & Partners • Mr. Hardik Gandhi, Partner, DeloitteHaskins and Sells 	<p>Leveraging dual use capabilities for National Security</p> <p>As the procurement of Space capabilities for defence gains traction different perspectives emerge. What kind of agility needs to be built up into these capabilities. Can some of the requirements be moved from Capex to Opex? Would procurement of commercial services entail a setof hardening norms to make them suitable for defence needs? How can Defence offsets be leveraged for enhancing the existing civil space capabilities for military procurements? The Civil Military fusion has worked for the growth of the space sector in many nations. What should be our nation's strategy?</p> <p>Chair & Moderator: Lt. Gen PJS Pannu (Retd), Former Deputy Chief, IDS andDistinguished Fellow USI</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Col KV Kuber, Director (Aerospace and Defence), Ernst & Young • Mr. Vishal Kanwar, Partner, Aerospace & Defence, PwC. • Ms. Kriti Upadhyay, Founder, Indus Tech Council • Mr. Saikrishna Budamgunta, Founder, Saptang Labs 	<p>Satellite in Achieving Universal Broadband</p> <p>With an intent to connect Indian citizens across the 650000 villages, the BBNL and USOF focus on fiber alone deprives generations of these rural citizens from the benefits of connectivity compared to their urban counterparts. Satellites can be deployed to achieve in a time-bound manner and should be a primary option for all rural and remote connectivity requirements. Focus on underserved communities</p> <p>Chair & Moderator: Mr. R Shakya, DDG-IR, Dept. of Telecom</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Jacques-Samuel Prolon, Executive Vice President, Kacific Broadband Satellites • Mr. Jitender Ahuja, Head – Products & Solutions, Nelco Ltd. • Ms. Reena Malhotra, GM NWP-SP, BSNL • Mr. Prakash Advani, CEO, picoNETS • Mr. Gaurav Kharod, Managing Director, Sales, Intelsat • Dr C S Shaijumon, Assoc Prof and Head of Humanities, Indian Institute of Space Science and Technology (IIST). • Mr. Deepak Maheshwari, Chief Executive Officer of Public Affairs Forum of India (PAFI) 	<p>Space ready MEMS, composites and compound semiconductors</p> <p>One of the catalysts for the new space economy is the introduction of advanced materials, composites and their production methods. The harsh environment of space places stringent demands on materials, composites and compounds from mechanical parts to semiconductors. The ability of space missions to reach the expected lifetime depends on correctly building the survival capability of its various subsystems and the possible failures and abnormal behaviour that might occur. The choice of these foundational elements can be critical for a successful space business.</p> <p>Chair & Moderator: Dr Seema Vinayak, Director, Solid State Physics Laboratory (SSPL), DRDO</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Gadhadar Reddy, CEO, NoPo Technologies • Mr. Rupesh Kumar, CEO, XDLINXLabs
13:10		01:20	Networking Lunch Break			

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INDIA SPACE CONGRESS 2022 - PROGRAM

'Leveraging Space to Power Next-Gen Communications & Businesses'

Day 3, 28 th October 2022, Friday at Hotel Le Meridian, New Delhi			
14:40	16:00	01:20	<p>Insurance and liability coverage for space business</p> <p>With exciting ideas in payloads, launch or satellite solutions, The private sector is rearing to have a go. How is the private sector ecosystem assisted by governments to share the risks and make it practical for space startups to survive and how do space underwriters view this segment from the perspective of heritage and in-orbit reliability of satellite hardware selection, Flight history of launch vehicles for launch risks, Design redundancies and margins etc. A chat with mission experts, policy makers, insurance underwriters and start-ups</p> <p>Moderator: Dr. P. K. Jain, Director PMAD, IN-SPACE</p> <p>Keynote: Dr. Rachit Bhatia, SSA Applications Engineer, Leolabs Inc.</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. Rachit Bhatia, SSA Applications Engineer, Leolabs Inc. • Mr. Sireesh Pallikonda, Director Business Development, Skyroot Aerospace • Mr. Darshan Parikh, Senior Vice President- Head of Marine and Facultative Reinsurance at Marsh & McLennan Companies • Mr. Kunal Lalvani, Vice President at Aon India Insurance Brokers
			<p>Protecting Space capabilities and Cybersecurity framework</p> <p>Threats to space assets and their supporting infrastructure pose increasing risks to the economic promise of emerging markets in space. Faced with a unique mix of challenges that makes their cybersecurity, from threat vectors to risk mitigation considerably more complex. There are learnings from IT frameworks however to handle this better.</p> <p>Chair: Dr. Gulshan Rai, Chief Information Security Officer at the Prime Minister's Office, Government of India</p> <p>Moderator: Col KV Kuber, Director (Aerospace and Defence), Ernst & Young</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Rajiv Ratan Chetwani, Chief Information Security Officer, DOS/ISRO, Director, DISM, ISRO • Mr. Saikrishna Budamgunta, Founder Saptang Labs • Mr. Peter Bance, Director Shared Services, OneWeb • Dr. Pavan Duggal Advocate, Supreme Court of India Chairman, International Commission on Cyber Security Law • Mr. L. C. Mangal, Director, Defence Electronics Application Lab (DEAL), DRDO
			<p>Downstream: Ground network in Hybrid Space Architecture</p> <p>Space and ground systems need to work hand in hand, and both constitute essential parts that need to be addressed when striving for optimized efficiency. The pace of innovation has accelerated and involves all the main components of the ground segment ecosystem including the baseband/modems, antennas, radiofrequency (RF) equipment, and the software layer to support satellite and ground operations. The trends extend to ground station and data centre integration for insights that leverage AI and cloud innovations.</p> <p>Chair & Moderator: Mr. AK Anil Kumar, Associate Director, ISTRAC, ISRO</p> <p>Keynote: Mr. R. K. Singh, Managing Director, CPI Satcom</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. R. K. Singh, Managing Director, CPI Satcom • Mr. John Saripally, Managing Director, Comsat Systems Pvt. Ltd. • Mr. Srinath Logasubramanian, Director-Commercial Space, Telespazio Germany GmbH • Mr. Jai Dialani, CEO and Managing Director for Leaf Space USA • Mr. Vinod Kaul, RVP, South & South East Asia, Gilat Satellite Networks. • Mr. Manoj Dhaka, Head, SCSG, Defence Electronics Application Lab (DEAL), DRDO
			<p>Evaluating launcher options</p> <p>The satellite launch market could not be more diverse than this. Developments extend to both ends of the spectrum from small launchers to the gigantic Starship. How does this impact the launch market dynamics? Are there innovative business models in the offing?</p> <p>Chair & Moderator: Mr. MS Anurup, Director STPO, ISRO HQ</p> <p>Keynote: Mr. Logan Ware, Director, Commercial & International Sales, Blue Origin</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Srinath Ravichandran, Co-founder & CEO, Agnikul Cosmos • Mr. Logan Ware, Director, Commercial & International Sales, Blue Origin • Mr. Manu J. Nair, • Co-Founder & Chief Executive Officer, Ethereal Exploration Space and Defence Private Limited • Mr. Kunal Gupta, Lead - Strategy and Investments, Skyroot Aerospace
16:00	16:30	00:30	Closing of the India Space Congress
			Summing up the three days proceedings: Mr. DS Govindrajan, Board Member, SIA-India



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