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NEWS LETTER

November 2022/01

Thought Leaders for the Satellite Communication Industry in India



[Updates on Successful Culmination of India Space Congress 2022 \[ISC'22\]](#)

The first edition of India Space Congress was held by SIA-India in Oct 2022. With support from the Department of Space, Indian Space Research Organisation (ISRO), Ministry of Defence, Niti Aayog, In-Space, NewSpace India Ltd (NSIL) and the Department of Telecommunication the congress also had wide support from 21 domestic and international trade bodies and associations. The theme for ISC 2022 was 'Leveraging Space to Power Next-Gen Communication & Businesses'. The three-day India Space Congress 2022 witnessed 600 plus delegates, 180 Speakers, 35 thematic sessions from 30 nationalities. The platform opened several key dialogues, discussed disruptive business models, talked about key regulatory challenges and possible learnings from other geographies.



Delegates ranged from Govt Departments, Regulators, Policymakers, Defence Security Forces to Satellite Operators and Service Providers, Broadcasters/DTH Service Providers, Satellite System Integrators and Launch vehicles, Ground and Terminal Equipment Manufacturers and Suppliers, Satellite-based IOT/M2M service providers, Law Firms, Deep Tech startups, Incubators, Venture Capital Firms

Geospatial Segments – EO & RS and the user Segments: Agriculture, Aviation & Maritime, O&G, Defence, Railways, Healthcare, Banking and Fintech also had a prominent participation

Research and Information System for Developing Countries (RIS) partnered with SIA-India to have a cohesive roadmap, RIS and SIA-India also have signed an MoU to collaborate and partner in the ongoing space development of the nation.

INDIA SPACE CONGRESS 2023 will be held on 12-14 July 2023 in NEW DELHI

Highlights of ISC 2022

The India Space Congress Inaugural Session was graced by Shri Om Prakash Sakhlecha, Hon'ble Minister – Science & Technology, Government of Madhya Pradesh, Dr. Somanath S, Chairman, Space Commission; Secretary, DoS and Chairman ISRO, Shri. K. Rajaraman, Chairman, DCC & Secretary Telecom, Shri. A. S. Kiran Kumar, Member Space Commission, Former Secretary, Department of Space & Chairman, Dr. Mike Short CBE, Chief Scientific Advisor, Department of International Trade, UK, Mr. Nathan De Ruiter, Managing Director, Euroconsult, Mr. Deepak Mathur, EVP Global Sales Video-SES and Dr Subba Rao Pavuluri, President, SIA-India & CMD Ananth Technologies Pvt. Ltd



in pic: Shri Om Prakash Sakhlecha, Hon'ble Minister – Science & Technology, Government of Madhya Pradesh felicitating Ms Revathi Mannepalli for being successfully elected as an ITU RRB Member from Region E.

Shri Rajeev Chandrasekhar, Union Minister of State for Entrepreneurship, Skill Development, Electronics & Information Technology graced the occasion on Day 2 of the ISC 2022. He said 'Satellite is an inherent part of providing internet to all the citizens in the country'



In Pic: Shri Rajeev Chandrasekhar felicitating Ms Aarti Holla-Maini, Sec Gen, GSOA.



Dr Somanath S speaking at the India Space Congress. He shared his plan to expand NaVIC for civilian use. As of now, NaVIC uses 7 satellites to provide real-time positioning services in India and up to 1,500 km from the borders. Dr Somanath has urged India Inc. to partner with it on the reusable rocket programme. He indicated that the entire design and manufacturing of the reusable rocket would happen in close collaboration with the industry, which will also have to take on the responsibility of operating it commercially.



Shri. K. Rajaraman, Chairman, DCC & Secretary Telecom said Space technologies offer convergence, and the spectrum deployed should be put to better use as space communications can play an important role in fulfilment of national goals including economic inclusion



Dr. G Sathesh Reddy, Scientific Advisor to Raksha Mantri, Ministry of Defence stated that India Is Set to become a Global Leader in Space Technology: "With the opening of space tech to private players, participation by start-ups and private organisations has brought transformative changes".

Shri Rajesh Bhushan, Secretary Ministry of Health and Family Welfare, Govt. of India stated that the goal is to make Digital Health services like ABHA, IHIP and more available in tribal and village areas with the help of satellite-based backups.



ISRO is building upon the vision of Mr. Vikram Sarabhai and providing disruptive technologies with the vision of growth for Developing nation like India - **Shri A.S Kiran Kumar**, Member Space Commission, Former Secretary, Department of Space & Chairman, ISRO at India Space Congress

"Our mission is to provide uplinking & downlinking services to our neighbouring countries such as Nepal & Bhutan" - **Shri Apurva Chandra**, Secretary, Information and Broadcasting, Ministry of I&B

Dr Mike Short, Chief Scientific Advisor, Department of International Trade, UK stated that cellular and satellite should not be seen as competitors. The stakeholders need to work on cost, content and coverage to boost the internet usage in India.



Mr. Nathan De Ruiter, Managing Director, Euroconsult as part of the power session on Recent investment trends in the commercial space market and how that will impact the immediate and long-term future of the industry.

Day 1 (October 26, 2022) had sessions around space technology and satellite capabilities. From discussing 'India's Space Strategy for Future' to 'Pushing the Boundaries on Satellite Remote Sensing,' each elite panel will threadbare discuss nuances of the Satcom industry.

Sessions on the first day included 'Decoding Space Economy,' 'In-Orbit Technologies,' 'Leveraging Data from Space,' and, 'Demystifying U.S. Export Control Regulations ITAR and EAR for the India Space Sector.'



Day 2 (October 27, 2022) had power-packed sessions on funding, technology, emerging technologies and alliances. 'Space Investment Outlook and Funding for New Ventures' took into cognisance recent investment trends in the commercial space market and how that will impact the immediate and long-term future of the industry. The day witnessed pitches by 5 SpaceTech startups to an elite panel at the session 'Pitch Right for Skyrocketing Start-ups.' Session on 'International Collaboration,' 'A Balanced Approach to Spectrum Allocation,' 'Human Space Flights and Deep Space Opportunities,' 'Satellites in Mobility,' 'Satellites in the 5G Era and Beyond,' and, 'Dialogue on Satellite Role in Disaster Management and Resilient Infrastructures' were concluded on Day 2.



Defence and security took the centre stage on **Day 3 (October 28, 2022)** as veterans and experts discussed and deliberated on 'Space: The Fourth Frontier of Warfare,' along with sessions like 'Leveraging dual-use capabilities for National Security,' 'Protecting Space Capabilities and Cybersecurity Framework,' 'Navigating the Laws for Space Business in India,' 'Insurance and Liability Coverage for Space Business,' and, 'Spacecraft Design, Production and Mission Success,' among others.



Pitch right for skyrocketing Start-ups

ISC also provided the opportunity for Space entrepreneurs to pitch their ideas to the investors 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 got the platform 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.

With iDEX and Microsoft on board, this is just the beginning of a partnership that will reap benefits to the deep tech space start-ups and will work towards fostering, incubating and hand-holding promising start-ups.

Five space tech start-ups [Astrogate, Blue Sky Analytics, Vellon Space, Delta-V Robotics, GeneX] pitched their ideas to industry leaders and investors during the session 'Pitch Right for Skyrocketing Startups' where they participated in a specially curated mentorship programme with senior executives of leading companies.

Microsoft announced partnerships with 15 space start-ups as an extension to its Founders Hub programme. Under the programme, 15 startups can apply for free Azure credits worth up to \$150,000.



[SIA-India signed MoU with the Taiwan Space Industry Development Association \(TSIDA\)](#)

SIA-India signs MoU with the Taiwan Space Industry Development Association (TSIDA) to establish a cooperation platform and strengthen inter-industry exchanges & links. Mr. Ge Baoxuan (front left), the representative of the Republic of China in India, on behalf of the TSIDA, exchanged a memorandum of cooperation with Dr. Subba Rao Pavuluri, president of the Satellite Industry Association of India (SIA-India) The event took place at the opening ceremony of the India Space Congress 2022 in the august presence of Shri Om Prakash Sakhlecha, Hon'ble Minister – Science & Technology, Government of Madhya Pradesh, Shri. K. @Rajaraman, Chairman, DCC & Secretary Telecom and Dr. Somanath S, Chairman, Space Commission; Secretary, DoS and Chairman ISRO - Indian Space Research Organization



[SIA-India signed MoU with Australia India Chamber of Commerce \(AICC\)](#)

SIA-India has inked pact an MOU with Australia India Chamber of Commerce (AICC) during the India Space Congress in the presence of Hon Shri Rajeev Chandrasekhar, Union Minister of State for Entrepreneurship, Skill Development, Electronics & Information Technology. This will spur several collaborations and will lead to the exponential growth in space sector globally in LEO, MEO & GEO space.



[Reports Released](#)

Two reports were released during the ISC 2022



"Why do Indian Founders in the Space Industry Start Their Start-Ups Abroad?" by R Sai Shiva Jayanth and Gopalakrishnan Narayanamurthy, Spaceport SARABHAI



"Space for Defence in India" report by PwC and SIA-India.

[SIA-India Call for Papers Initiative](#)

In the endeavour to promote & inspire young talent and create awareness about the space sector as being a great career option, SIA-India invited original research paper submission students, academicians, research scholars and young entrepreneurs.

The response was overwhelming, and over 36 submissions were received from tech students, academicians, and

research scholars. After extensive deliberations by an expert jury panel, 5 original papers were shortlisted for awarding cash prizes.

Students were also given the chance to present their research papers to professionals. The winners advanced to the next stage, where they engaged with the distinguished audience and responded to their inquiries.



DG connect:

"India Space Congress is a well-timed international conference and expo which discussed and deliberated on how the private sector leverages its support in the global space economy. Supported by 6 government bodies and various state governments, India Space Congress provided multiple platforms of discussion that culminated in recommendation and position paper."

Anil Prakash (Director General- SIA-India)

Networking at ISC'22



[The fortnight at a glance:](#)

Govt working to ensure efficient use of spectrum

FE BUREAU
New Delhi, October 26

THE GOVERNMENT IS working with all sectors to ensure efficient use of spectrum for convergence of emerging technologies, telecom secretary K. Rajaraman said today.

"(As) technologies evolve continuously, therefore, the use of spectrum also needs to evolve...to give ways to effective and more productive ways of

deployment of spectrum," he said at the India Space Congress 2022.

Spectrum refers to the radio frequencies allocated to telecom service providers and other sectors to facilitate communication over the airwaves for providing internet, voice services, among other communication services.

Comments from the telecom secretary assume significance in light of the different views from the satellite operators and telecom industry for the

satellite spectrum. While the telecom companies want the spectrum for satellite communication services to be auctioned, the satellite services providers want the government to allot spectrum administratively.

Companies such as Bharti Group-backed One Web, Jio Satellite Communications, among some global players, are currently in the race to offer satellite-broadband services in the country.

While the department of

telecommunications has pitched for auctioning of airwaves, the TRAI is yet to come up with its recommendations on the method of allocation of spectrum. Through effective deployment of spectrum, the government also aims to ensure convergence of emerging technologies. For example - compatibility of devices such as smartphones to support both terrestrial networks as well as satellite communication services.



Indian Space Research Organization chairman S. Somanath.

India to expand NaVIC: ISRO chief

India plans to expand its regional satellite navigation system Navigation with Indian Constellation (NaVIC) in a bid to increase its use in the civilian sector and also by ships and aircraft travelling far from the country's borders.

The NaVIC uses seven satellites to provide real-time positioning and timing services in India and an area extending up to 1,500 km from the country's borders.

However, several satellites of the constellation have outlived their lives and the Indian Space Research Organization (ISRO) now plans to replace at least five of these with the improved L-Band, which would enable it to offer better global positioning services to the public. "We have five more satellites in production, they have to be launched periodically to replace the defunct satellites. The new satellites will have L-1, L-5 and S Band," ISRO chairman S. Somanath told *PTI* in an interview. Somanath was speaking on the sidelines of the India Space Congress organized by the SatCom Industry Association. He said the NaVIC system was not in a "full-fledged operational regime" as some of its seven satellites have failed.

PTI

इंडिया स्पेस कांग्रेस 2022

स्पेस स्टार्टअप्स के लॉन्चपैड की शुरुआत, खुलेंगे दरवाजे

बिजनेस संवाददाता | नई दिल्ली

सेक्टरों इंडस्ट्री एसोसिएशन ने बुधवार को नई दिल्ली इंडिया स्पेस कांग्रेस (आईएससी)-2022 की शुरुआत की। 28 अक्टूबर तक चलने वाले इस आयोजन को स्पेस स्टार्टअप्स के लॉन्चपैड का आगाज माना जा रहा है। इसकी थीम भी 'लीवरेजिंग स्पेस टू पावर नेक्स्ट-जेन कम्युनिकेशन एंड बिजनेस' है। मतलब यहाँ स्पेस सेक्टर में अगली पीढ़ी के उद्यमियों के लिए बिजनेस के मौके खंगाले जाएंगे। आईएससी के उद्घाटन के मौके पर भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) के

चेयरमैन एस सोमनाथ ने कहा कि संगठन स्पेस इकोनॉमी का फायदा उठाने में नए जमाने की कंपनियों की मदद करेगा। उन्होंने यह भी कहा कि स्पेस सेक्टर में प्रत्यक्ष विदेशी निवेश (एफडीआई) को लेकर सरकार जल्द एक नीति घोषित करेगी। इसरो, रक्षा मंत्रालय, नीति आयोग, इन-स्पेस, न्यूस्पेस इंडिया लिमिटेड और दूरसंचार विभाग के सपोर्ट से आयोजित इस कांग्रेस में माइक्रोसॉफ्ट भी हिस्सा ले रही है। यह कंपनी 15 स्पेस स्टार्टअप्स के साथ पार्टनरशिप की घोषणा कर सकती है। इसमें 30 देशों की कंपनियाँ और एक्सपर्ट्स हिस्सा लेंगे।



Health ministry sees application of satellite communications in Cowin, Ayushman Bharat

The health ministry sees many ways that satellite communications could be used in Cowin, Ayushman Bharat, Integrated Health Intelligence Platform (IHIP), e-Sanjeevani, and other...

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Space, satellite communication critical for India's dominance in electronics, says minister Rajeev Chandrasekhar

The emerging commercial space and satellite communication sectors can be pivotal in creation of successful use cases...

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National Space Policy to allow private cos to build launch vehicles

The central government will soon announce a National Space Policy that will allow private sector companies to manufacture satellite launch vehicles and speed up the pace of...

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Revised uplinking-downlinking guidelines to be released in a month: I&B Secretary Apurva Chandra

The Information and Broadcasting (I&B) ministry will release the revised Uplinking and Downlinking Guidelines 2011 within a month in order to de-regulate uplinking, I&B secretary...

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DoT urged to consider administrative allocation of satellite spectrum, not auction

Members of the space industry have urged the Department of Telecommunications (DoT) to go for administrative allocation of the satellite spectrum and not auction...



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Armed forces look to industry for solutions to tackle satcom problems

The country's armed forces have been facing myriad problems when it comes to satellite communication, and are looking for solutions from the industry to tackle issues such as obscure connectivity...

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Satellite Industry not for spectrum allocation via auction

Satellite industry has urged the Department of Telecommunication (DoT) to administratively allocate spectrum to them and not take the auction route. They said this is in conjunction with the fact that satellite spectrum auction has never happened...

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Centre's revised guidelines will make India uplinking hub for neighbours

India is all set to become a hub for uplinking of satellite television channels when the government will roll out the new uplinking and downlinking guidelines in a month...

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SatCom reforms a huge leap for industry: Association

BENGALURU: SatCom Industry Association-India (SIA-India) and the member companies on Wednesday said the recently released 'Satellite Communications Reforms 2022' by the department of telecommunications (DoT) would be a huge leap...





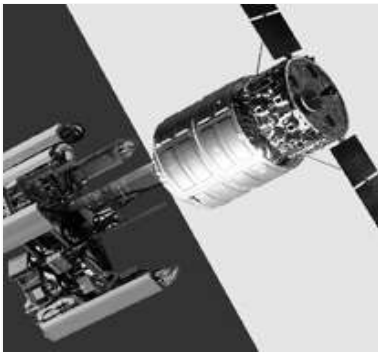
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Satcom reforms to help satellite players facilitate faster 5G services rollout: SIA-India

Delhi-based SIA-India said the reforms will "directly and considerably" impact several sectors including education, health, agriculture, logistics, disaster management...

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Satellite Spectrum Raises Moot Question: To Auction or Not to Auction

Satellite services are just around the corner and hold great potential in the Indian context. With the advent of high-throughput satellites with low latency, satellites...

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