

NEWSLETTER

INDIAN SPACE ASSOCIATION



EXPLORING THE FINAL FRONTIER:



**ISpA Newsletter Unveils Future of
Sustainable Space Exploration**

Welcome to **ISpA Newsletter**, a trusted conduit for illuminating the latest strategic endeavours, technological innovations and industry insights shaping the future of sustainable space exploration.

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MESSAGE FROM DG-ISpA

This August, we came together to celebrate India's second **National Space Day on 23rd August 2025**, marking the historic Chandrayaan-3 landing in 2023. We celebrated the launch of the ISRO–NASA NISAR mission – a symbol of India-US cooperation in space and Group Captain Shubhanshu Shukla's return from the Axiom-4 mission. As a part of Gaganyaan Mission, ISRO is planning an uncrewed test flight in December 2025.

We were delighted to join the National Space Day Celebrations at Bharat Mandapam, New Delhi, hosted by ISRO. It was inspiring for ISpA and its members to engage with industry leaders, students, and space enthusiasts.

Our two founder members **Eutelsat OneWeb and Tata Group's Nelco Limited** signed an agreement to expand secure LEO satellite connectivity services across India's borders and seas.

Our other members too achieved remarkable milestones this month:

- A first-of-its-kind consortium of **Pixxel, Dhruva Space, PierSight, and SatSure** will design, build, and operate India's first private Earth Observation constellation under a PPP model with IN-SPACE and our congratulations to all the consortium members.
- **Augsenselab** partnered with MistEO (India) and LocationMind (Japan) to enhance climate intelligence and disaster-management solutions. This agreement was signed during **Hon'ble Prime Minister Modi's visit to Japan**.
- **Xovian Aerospace** raised \$2.5 million in pre-seed funding from IPV and Eaglewings Ventures.
- **AgniKul Cosmos** unveiled the world's largest single-piece 3D-printed Inconel engine.
- **Skyroot** successfully test-fired India's largest privately developed rocket stage, paving the way for the maiden flight of Vikram-1.
- Well done to the teams of **Pixxel, Dhruva Space**, for successful satellite launch missions aboard SpaceX's Falcon9.
- Compliments to **Capella Space** and **Planet Labs** for launching their missions aboard SpaceX's Falcon9.

As a follow up of the National Space Day, Amity University celebrated Space Day with support from ISpA, on its Noida campus, where I had the honour of being the Chief Guest.

Looking ahead, ISpA is proud to support the **Italy-India Aerospace Roadshow 2025 (22–26 September)** and I will be a **jury member for the Viasat: Space for Good Challenge** in New Delhi. These initiatives strengthen collaboration between Indian and global space industries and empower the next generation of innovators.

As we move into an exciting phase for India's space journey, I look forward to meeting many of you—our members, partners, and young enthusiasts—as we continue to push the frontiers of innovation and excellence together. Also, preparations for the India International Space Conclave 2025, to be held on 18-19 November 2025 are underway, we welcome your engaging participation.



Lt Gen A K Bhatt

PVSM UYSM AVSM SM VSM (Retd)
Director General,
Indian Space Association (ISpA)
(Former DGMO, MS & GOC 15 Corps)

HIGHLIGHTS OF THE MONTH

- AUGSENSELAB SIGNED AGREEMENT WITH MISTEO (INDIA) AND LOCATIONMIND (JAPAN) DURING HON'BLE PRIME MINISTER MODI'S VISIT TO JAPAN
- A CONSORTIUM OF PIXXEL, DHURVA SPACE, PIERSIGHT, AND SATSURE TO BUILD AND OPERATE INDIA'S FIRST PRIVATE EARTH OBSERVATION CONSTELLATION
- EUTELSAT ONEWEB AND NELCO LIMITED SIGNED AN AGREEMENT TO EXPAND LEO SATELLITE CONNECTIVITY
- ISPA JOINED NATIONAL SPACE DAY CELEBRATIONS HOSTED BY ISRO ON 23RD AUGUST 2025
- ISPA TO SUPPORT THE ITALY-INDIA AEROSPACE ROADSHOW 2025 (22-26 SEPTEMBER) IN HYDERABAD, BENGALURU, AND NEW DELHI
- VIASAT: SPACE FOR GOOD - INDIA FINALS TO BE HELD IN NEW DELHI ON SEPTEMBER 26, 2025
- ISPA HOSTED A WORKSHOP ON "IMPLEMENTATION OF NAVIC TIMING", BRINGING TOGETHER MILITARY USERS, INDUSTRY EXPERTS, AND TIMING SOLUTION PROVIDERS TO ACCELERATE THE ONE NATION ONE TIME INITIATIVE
- PIXXEL, DHURVA SPACE, CAPELLA SPACE AND PLANET LABS HAD SUCCESSFUL SATELLITE LAUNCH MISSIONS ABOARD SPACEX'S FALCON9

MEMBERS BULLETIN



AGNIKUL COSMOS

AgniKul Cosmos unveiled the world's largest single-piece 3D-printed Inconel engine, a global first in scale & complexity with no welds or joints. A leap in additive manufacturing and a proud Make in India moment. This indigenously developed design was also patented in the U.S., a recognition of Indian innovation in a nation known for its propulsion legacy.

AgniKul Cosmos is also participating in Tamil Nadu Global Startup Summit 2025, to be held in Codissia on Oct 9, 10 2025.



AUGSENSE LAB

Augsenselab has entered into two strategic partnerships aimed at strengthening climate intelligence and disaster-management solutions:

- MistEO (India): The collaboration will integrate Augsenselab's advanced sensing technologies with MistEO's hyperlocal weather-forecasting expertise to deliver next-generation climate intelligence services.
- LocationMind (Japan): Signed on the sidelines of Prime Minister Narendra Modi's recent visit to Japan, this partnership will combine Japan's photonics and semiconductor process-engineering strengths with Augsenselab's quantum-enhanced sensing platforms, focusing on disaster prevention and response applications.



CAPELLA SPACE

Capella C16, Acadia 6 — Ojos Sobre La Tierra — was launched aboard SpaceX's Falcon9. Congratulations to Capella Space and associated teams (Exolaunch) for completing launch site activities in near-record time: just 36 hours from power-on to full integration. Capella's Acadia 6 will deliver high-resolution SAR imagery that penetrates clouds to reveal Earth observations.

MEMBERS BULLETIN



DHRUVA SPACE

DHRUVA SPACE

Dhruva Space's first commercial satellite LEAP-1 was successfully launched on a SpaceX vehicle. Executed via MECANO ID's EOS-B8 Ring Deployer, this milestone signifies Dhruva's foray into deploying nano and micro-satellites. It also undertook LEAP-1 satellite's integration with a SpaceX launch vehicle; making it the first private Indian company to carry out this critical step entirely in-house.

Dhruva Space will work with Pixxel, SatSure, and PierSight in delivering India's first fully-indigenous, privately-operated Earth Observation satellite constellation under the Earth Observation Public-Private Partnership (EO-PPP) programme awarded by IN-SPACe. This will create a platform for Indian companies to unite expertise across Space Tech value chain for a sovereign, world-class EO capability.



EUTELSAT ONEWEB

Eutelsat One Web inked an agreement with Tata Group's Nelco Limited, to deliver LEO satellite connectivity services across India. It will provide secure, low-latency connectivity for customers on land, at sea, and in the air, supporting a wide range of government and enterprise applications and help strengthen India's digital infrastructure and national security.



NELCO LIMITED

Nelco announced partnership with Eutelsat OneWeb to deliver LEO satellite connectivity services across India. Nelco will bring secure, high-speed, and low-latency connectivity to customers —extending coverage across India's borders, territorial waters, and remote regions. This milestone strengthens India's digital infrastructure and strategic communication capabilities, supporting critical applications for government, defence, maritime, aviation, and enterprise sectors. Nelco remains committed to advancing India's digital ecosystem with multi-orbit satellite connectivity solutions that enable inclusive growth and nation-building.

MEMBERS BULLETIN



PIERSIGHT

Piersight, alongside Dhruva Space, SatSure, and Pixxel won the IN-SPACE proposal to design, build, and operate India's first fully indigenous commercial Earth Observation satellite constellation under the PPP model, a mission backed by an investment of over ₹1,200 crore. As the consortium's SAR specialist, it will enable dependable day-night, cloud-penetrating imaging and analysis-ready outputs for applications ranging from disaster response and maritime monitoring to urban change detection, agriculture, and climate monitoring.



PIXXEL

Three hyperspectral imaging satellites developed by Pixxel were successfully placed in orbit by SpaceX's Falcon 9 rocket. This launch, along with the three launched earlier in January, marked the completion of the first phase of the Firefly constellation. With these first six satellites, the company will be able to provide global coverage every 24 hours. The satellites will also provide high-resolution images of the Earth at a 5-metre resolution, captured in 135 spectral bands. Pixxel plans to create an 18-24 satellite constellation, depending on customer needs.

Pixxel will lead a first-of-its-kind private consortium, alongside Dhruva Space, PierSight, and SatSure, to design, build, and operate India's national Earth Observation constellation under a PPP with IN-SPACE.

They will develop a 12-satellite network, including sub-metre very high-resolution, multispectral, SAR, and hyperspectral satellites, entirely from India, serving users in India and around the world. This is a milestone for India's space sector, strengthening data sovereignty and showcasing world-class space-tech capabilities on the global stage.

MEMBERS BULLETIN



PLANET LABS

Planet Labs successfully launched two high-resolution satellites, Pelican-3 and Pelican-4, aboard a SpaceX Falcon 9 rocket from Vandenberg Space Force Base in California. The Gen 1 Pelican satellites are designed to provide up to 40 cm class resolution imagery across six multispectral bands. Through a partnership with NVIDIA, the satellites are equipped with NVIDIA Jetson AI platforms for on-orbit computing capabilities.

Planet has partnered with Global Fishing Watch and will leverage its deep stack of satellite data to process more than 2 million square kilometers of imagery every day — transforming how we see the ocean - to bring in transparency and sustainable use of oceans.



SATSURE

August was a landmark month for SatSure, marked by game-changing partnerships, global collaborations, and national recognition. From empowering 100M+ farmers with smarter credit access to joining India's first indigenous EO satellite constellation, here's a look at what we achieved this month:

EO-PPP Constellation Win (India): As part of a historic consortium with Pixxel, PierSight, and Dhruva Space, SatSure was selected under IN-SPACe's ₹1,200 crore EO-PPP program to build India's first indigenous commercial satellite constellation. SatSure will contribute two advanced EO satellites under KaleidEO, strengthening India's sovereign space capabilities.

Perfios.ai Partnership: In collaboration with Perfios.ai, SatSure announced a strategic initiative to digitize and transform agri-lending workflows. Together, they aim to unlock seamless credit access for 100M+ smallholder farmers by embedding SatSource and SatCollect into the financial ecosystem.

SatSource UP Report Launch: SatSource UP Report, delivering parcel-level agricultural intelligence across all 75 districts of Uttar Pradesh. This innovation will accelerate agri-credit, strengthen risk assessment, and enable financial inclusion at scale in India's largest farming state.

AEC Excellence Award for SatSure Skies: SatSure was honored with the AEC Excellence Award for Technology Innovation at the AEC Forum 2025 by Geospatial World. This recognition highlights SatSure Skies and its role in transforming aviation through digital innovation—integrating aeronautical data management, charting, and obstacle analysis to build safer, smarter, and more sustainable skies.

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SKYROOT AEROSPACE

Skyroot test fired India's largest privately developed rocket stage ahead of maiden flight of Vikram-1. Its first stage, Kalam-1200 with 236 data channels confirmed flawless performance. The powerhouse motor lifted the rocket from the launchpad to 50+ km altitude. Skyroot's Kalam-1200 rocket stage was back to base after a successful static fire test at Sriharikota. The Vikram-1 mission team is now diving deep into post-test analysis.

The rocket stage is the largest monolithic solid rocket motor developed in India's space sector. At a length of 11 metres, it can generate nearly 1200 kN of peak vacuum thrust, nearly 10 times as much as that of an engine on a Boeing 737 Max.



XOVIAN AEROSPACE

Xovian Aerospace raised \$2.5 million in a pre-seed funding round led by Piper Serica and Turbostart, with backing from Inflection Point Ventures (IPV) and Eaglewings Ventures. Xovian is building a radio frequency (RF) satellite infrastructure designed to surpass the limitations of traditional optical imaging. The funding will power the launch of its first spacecraft, expand its engineering capacity, and kick off pilot projects with enterprise clients.

MEMBERS BULLETIN





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NATIONAL SPACE DAY 2025: CELEBRATING INDIA'S SPACE JOURNEY FROM ARYABHATTA TO GAGANYAAN | 24 AUGUST 2025

The **2nd National Space Day (NSpD 2025)** was celebrated with grandeur and pride on **23rd August 2025** at *Bharat Mandapam, New Delhi*, with the theme "Aryabhata to Gaganyaan: Ancient Wisdom to Infinite Possibilities". The event was not just a commemoration but a reflection of India's collective aspirations in space science and technology, bringing together the nation's policymakers, scientists, industry leaders, innovators, students and the public.

This year's celebration was preceded by **National Meet 2025 (NM 2.0)**, held on 22nd August 2025, on the theme "Leveraging Space Technology and Applications for Viksit Bharat 2047." The decision to integrate the National Meet with the Space Day proved immensely fruitful, creating a unique convergence of ministries, state governments, industry, startups, academia and space enthusiasts.

National Space Day 2025 (NSpD 2.0): A Celebration of Achievements and Aspirations

Inaugural Session Highlights

- A video message from the Hon'ble Prime Minister of India, Shri Narendra Modi, setting the tone with his vision for India's space future.
- Inaugural address by the Hon'ble Minister of State for Space, Dr. Jitendra Singh, who also distributed prizes to winners of the ISRO Robotics Challenge and the Bhartiya Antariksh Hackathon, both of which saw overwhelming nationwide participation
- A special highlight of the inaugural event was the presence of India's four Gaganyatris. They shared their experiences and inspired students and youth, leaving a lasting impression on the audience
- Release of outcome reports from National Meet 2025 (NM 2.0) and the Chintan Shivir 2025, symbolizing India's forward-looking policy approach
- A walkthrough of the space exhibition, showcasing contributions from industries, startups and ISRO centres





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**NATIONAL SPACE DAY 2025: CELEBRATING INDIA'S SPACE JOURNEY
FROM ARYABHATTA TO GAGANYAAN | 24 AUGUST 2025**

Inspiring Sessions and Discussions

- A Keynote Address by Prof. Ajay Kumar Sood, Principal Scientific Advisor to the Government of India, emphasized the transformative role of space technology in national progress
- Four Panel Discussions provided multi-dimensional perspectives:
 - Space Vision 2047: Integrated Implementation at National Level - with stakeholders from government, industry, academia and strategic sectors
 - Space Economy: Marching towards Targeted Achievements - evaluating reforms and economic opportunities in the space sector
 - SHE in Space - women leaders sharing their perspectives on inclusivity and diversity in the space ecosystem
 - Astronauts Panel: Down to Earth, Up in Space - India's Gaganyatris narrating their journeys, sparking curiosity and inspiration among students and youth

The exhibition also drew participation, with over 1,400 students and hundreds of teachers interacting with astronauts, scientists and industry representatives, creating a memorable experience for young minds.

Nationwide Engagement: A Celebration Across India

The 2025 celebrations went far beyond Delhi, culminating months of zonal events held across the country. ISRO Centres and Units organized nearly 100 outreach activities across 28 States and 8 Union Territories, directly reaching an estimated 1.5 lakh students and 15,000 teachers.

In addition to physical participation, the celebrations attracted a remarkable digital audience. More than 1.25 lakh viewers joined online through livestreaming and social media platforms, ensuring that the spirit of National Space Day reached every corner of the nation and engaged a truly diverse audience.

Two national-level competitions added further excitement to the celebrations:

- The ISRO Robotics Challenge, which began with 222 teams, culminated in a grand finale featuring 16 top teams.
- The Bhartiya Antariksh Hackathon, which drew enthusiastic participation from students and innovators nationwide, showcased creativity in solving real-world challenges through space applications

The winners of both competitions were honoured during the inaugural session, embodying the spirit of innovation, problem-solving, and youthful energy that defines India's future in space.



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NATIONAL SPACE DAY 2025: CELEBRATING INDIA'S SPACE JOURNEY FROM ARYABHATTA TO GAGANYAAN | 24 AUGUST 2025

National Meet 2025 (NM 2.0): Building the Roadmap for 2047

Scientific Secretary, ISRO, M Ganesh Pillai welcomed all the inaugural session attended by senior dignitaries including Dr. V. K. Saraswat, Member, NITI Aayog, Dr. V. Narayanan, Secretary, Dept. of Space; Chairman, Space Commission; and Chairman, ISRO and Dr. Pawan Kumar Goenka, Chairman, IN-SPACe. The session highlighted the role of space in national development, and showcased innovations from startups, research institutions and industry.

The heart of NM 2.0 lay in its ten breakout sessions covering critical areas such as:

- Agriculture & Water
- Forest, Environment, Energy & Policy
- Infrastructure Development & Geo-Governance
- Health, Education & Social Welfare
- Communication, Navigation & Technology Diffusion
- Disaster Risk Reduction
- Ocean, Weather & Earth Resources
- North-Eastern & Hilly States/UTs
- Coastal States/UTs
- Inland States/UTs

Looking Ahead

The Scientific Secretary, ISRO, M Ganesh Pillai summarized the proceedings of National Meet 2025 (NM2.0), National Space Day 2025 (NSpD 2.0) and preparatory zonal events. National Space Day 2025 was not just a commemoration of milestones, it was a call to action for the nation.

The insights from the National Meet, the enthusiasm of the youth, the collaboration across sectors and the vision shared by leaders all point towards an inclusive, technology-driven and ambitious space future for Viksit Bharat @2047.



The Industry Session saw leading companies and startups present their cutting-edge solutions in geospatial analytics, Earth observation and downstream applications, underlining the vibrancy of India's emerging space economy.

The Concluding Session, addressed Dr. P. K. Mishra, Principal Secretary to the Prime minister, summarized the deliberations and presented a roadmap to build national space infrastructure for 2047. The day ended with a cultural programme, adding colour and energy to the scientific discussions.



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**ISRO ACCOMPLISHES FIRST INTEGRATED AIR DROP TEST FOR
GAGANYAAN MISSION SUCCESSFULLY | 24 AUGUST 2025**



On August 24, 2025, ISRO accomplished first Integrated Air Drop Test (IADT-01) for Gaganyaan program at Satish Dhawan Space Centre (SDSC), Sriharikota. This test successfully demonstrated the objective of end to end performance validation of the critical parachute-based deceleration system of the Crew Module for Gaganyaan mission in one of the typical mission scenarios. This test is part of system level qualification of parachute-based deceleration system, in which a simulated CM, encompassing the deceleration system is dropped using a helicopter.

In Gaganyaan missions, parachute-based Deceleration system is employed during terminal phase of Crew Module (CM) descent to reduce the touchdown velocity of Crew Module to an acceptable limit for safe landing on sea. The parachute system and its layout, for IADT, was same as that of Gaganyaan missions. It comprised of four types of parachutes viz. Apex Cover Separation (ACS) (\varnothing 2.5 m - 2 nos), Drogue (\varnothing 5.8 m - 2 nos), Pilot (\varnothing 3.4 m - 3 nos.) and Main parachutes (\varnothing 25 m - 3 nos.).

In IADT-01, the simulated Crew module (~4.8 t) with Parachute system was released from an altitude of about 3 km using Indian Air Force's Chinook Heavy lift helicopter. The deceleration system initiation began with firing of ACS Mortar which deploys the \varnothing 2.5 m ACS parachutes, which is followed by the separation of Apex cover.

The test simulated a possible abort scenario on the launch pad. Upon release of CM, the onboard avionics commanded for deceleration system initiation and there after parachutes deployed in predefined sequence. Extensive modeling of CM as well as helicopter was carried out to address the dynamics of underslung body. Besides this, extensive trials with a dummy crew module hardware and IAF's Chinook Helicopter were carried out to validate the mission profile and related standard operating procedures.

Following successful accomplishment of multiple trial sorties and clearance by Test Authorisation Board (TAB), IADT-01 was carried out with the actual test article. Apart from ISRO centres, other governmental agencies including DRDO, Indian Air Force, Indian Navy and Indian Coast Guard also contributed in the successful accomplishment of this major test. Similar tests at different deployment conditions are planned in forthcoming days.



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SUCCESSFUL STATIC TEST OF KALAM 1200 SOLID MOTOR AT SDSC SHAR, SRIHARIKOTA | 8 AUGUST 2025



First Static Test of the KALAM 1200 Motor – the first stage of Vikram – 1 Launch Vehicle of M/s Skyroot Aerospace Pvt. Ltd. (SAPL), Hyderabad is accomplished successfully at Static Test complex of Satish Dhawan Space Centre, Sriharikota, ISRO, Department of Space at 09:05 hrs on 08.08.2025. This is a major milestone in the configuration and realization of the systems for Vikram – 1 Launch Vehicle. The motor is a 11 m long, 1.7 m dia monolithic composite motor with a Propellant Mass of 30t. Based on the design inputs, this longest monolithic motor is prepared at the Solid Propellant Plant, Sriharikota. Similarly, ISRO team has provided the design for the Test Stand, which is used for the static test of the motor.

This is in line with the Government of India initiative on Space Policy, 2023 for providing the necessary technical infrastructure and managerial guidance for the Private Sector players to contribute for the space economic growth. The performance of the test bed and the associated systems is normal as predicted.



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INDIAN SATELLITE DATA BASED ANALYSIS OF THE DHARALI FLASH FLOOD | 7 AUGUST 2025

A catastrophic flash flood triggered by intense rainfall caused debris-laden flows over Dharali and Harsil villages, in Uttarkashi district, Uttarakhand, on the 5th August 2025. The sudden deluge swept away homes, buildings, bridges, roads, and claimed human lives.

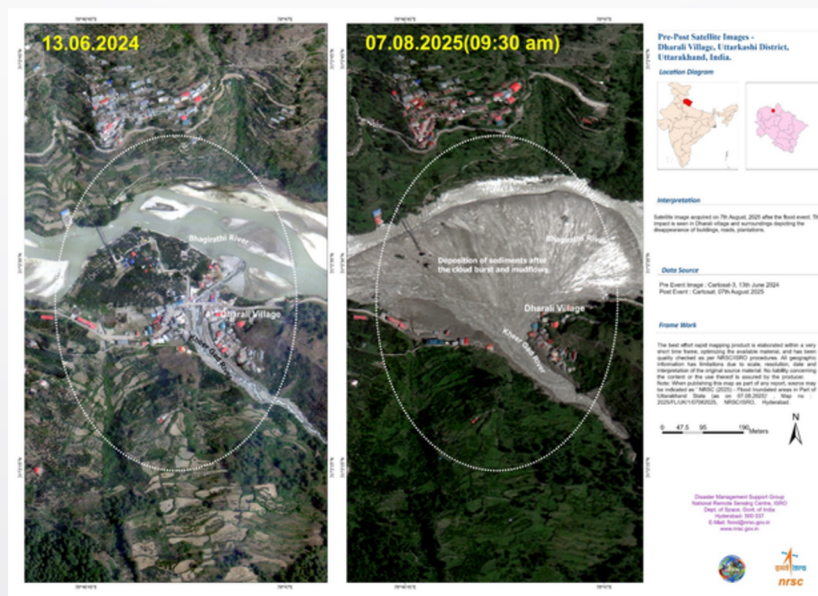
National Remote Sensing Centre (NRSC) / ISRO carried out rapid assessment of the damage using very high-resolution satellite images of India's Cartosat-2S satellites. The comparative analysis of satellite images of 07.08.2025 (post-event) and available cloud-free pre-event data (13.06.2024) revealed the extent and severity of the destruction.

The salient findings include:

- Indications of flash flood, with widened stream channels, altered river morphology and damage to human lives & infrastructure.
- Fan-shaped deposit of sediment & debris at Dharali village (~20ha area, ~750m X ~450m), at the confluence of the Kheer Gad & Bhagirathi River.
- Partial / complete destruction and disappearance of several buildings in the flood-affected zone, likely submerged or swept away by the intense mud flow and debris.
- A number of buildings appear to be submerged with mud / debris, in Dharali village.

The satellite images would help the ongoing search & rescue operations to reach out to stranded individuals and restore connectivity to the isolated region.

The event highlights increasing vulnerability of Himalayan settlements to disasters. Scientific analysis is being carried out to ascertain the cause of the triggering event.





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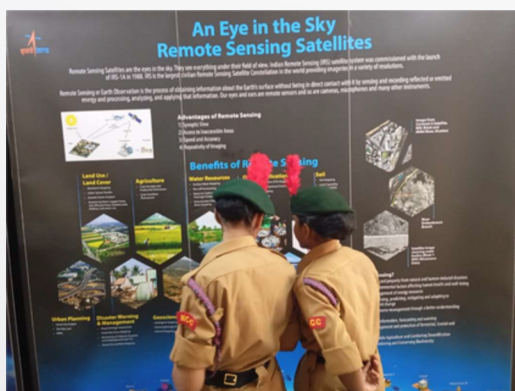
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SPACE ON WHEELS: INSPIRING JHARKHAND, BIHAR, AND TELANGANA WITH SPACE SCIENCE | 2 AUGUST 2025

ISRO has been inspiring young minds and fostering curiosity about space science through its innovative "Space on Wheels" outreach program. This mobile exhibition initiative brings the wonders of space exploration directly to students and communities across India, making science accessible even in remote areas. Recent events in states like Telangana, Jharkhand and Bihar have showcased ISRO's commitment to engaging the public with interactive displays and educational content.

Notably, at Osmania University and Vigyan Vaibhav in Gachibowli, Hyderabad, over 31,000 students enthusiastically participated, immersing themselves in the marvels of space technology. Similarly, the exhibition at Sainik School in Rukmapur, Karimnagar district, on April 8, 2025, captivated young learners, sparking their interest in India's space endeavors. The initiative made a significant impact at Ravi's Brilliant School in Katedan, Hyderabad where 1,500 students benefited from the interactive experience.

In Jharkhand and Bihar, the Space on Wheels program reached an impressive 30,000 individuals, covering villages, towns, and educational institutions in 20 different locations, ensuring that the excitement of space exploration transcends geographical barriers.





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VISIT OF BATCH-2&3 STUDENTS UNDER NORTH EAST STUDENTS' PROGRAMME FOR AWARENESS, REACH, AND KNOWLEDGE ON SPACE (NE-SPARKS) PROGRAMME | 2 AUGUST 2025



The North East Students' Programme for Awareness, Reach, and Knowledge on Space (NE-SPARKS) Programme is an initiative launched by ISRO, NEC and State Governments of North Eastern region. This programme was conceptualized following the directives of the Honourable Union Home Minister and President of the NESAC Society, Shri Amit Shah, during the 12th meeting of the NESAC Society.

As part of this programme, total 800 students in 8 batches (100 students per batch) from eight states of NER visit ISRO Centres in Bengaluru. The visits of the second and third batches were successfully conducted on June 26-27, 2025, and July 24-25, 2025, respectively.

On the first day of their visit, students explored the facilities at ISTRAC and IDSN. During these visits, they engaged with senior scientists, gaining valuable insights into the intricacies of deep space communications. On the second day, the students visited URSC, where they received an overview of satellite integration and testing processes. The visits concluded with a trip to the Jawaharlal Nehru Planetarium, where students watched a film on the Gaganyaan mission, offering them a glimpse into India's ambitious Human Space Programme.





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ISRO ORGANIZES SPACE ANALOG MISSION IN TSO KAR VALLEY, LADAKH | 1 AUGUST 2025

Indian Human Spaceflight Programme is a national endeavor led by ISRO that aims to extend the human presence across solar system, starting with human spaceflight missions to Low Earth Orbit (LEO) and achieving Indian Crewed Lunar Landing by 2040.

Human Space Flight Centre (HSFC) of ISRO, led the Ladakh Human Analog Mission (LHAM) in November, 2024 and partnered in the ten-day Isolation Study 'Anugami' involving ISRO's Gaganyatri in July, 2025. Dr V Narayanan, Secretary, Department of Space & Chairman, ISRO inaugurated the Himalayan Outpost for Planetary Exploration (HOPE) analog mission setup in Tso Kar Valley, Ladakh.



institutions such as IIST & RGCB, Trivandrum; IIT Hyderabad; IIT, Bombay; and the Institute for Aerospace Medicine, Bangalore.



He said that this analog mission is more than a simulation, rather it is a rehearsal for the future. He also noted that in line with Hon'ble PM Shri Narendra Modiji's vision, the space sector has been opened up to enable greater participation from Indian industry. This analog mission with an industry partner showcases the new era of public-private synergy that is taking shape in Indian space ecosystem.

Post inauguration, industry partner organised a 10-day (from 1st to 10th August, 2025) HOPE analog mission with the shortlisted experiments from partnering national

HOPE is a specially designed Dia 8 metre Habitat Module for crew living and a Dia 5 metre Utility Module for operations and support systems which are interconnected for seamless workflow. Tso Kar valley was specifically selected for this analog mission due to its striking environmental parallels with early Mars, due to high UV flux, low air pressure, cold extremes and saline permafrost.

Investigators from these institutes examined epigenetic, genomic, physiological and psychological responses of two analog mission crew members and validate health-monitoring protocols, planetary surface operations, and refine sample collection and microbial analysis techniques. The valuable data generated through these Analog Missions organized by HSFC will form the basis for design of protocols and infrastructure for future Indian Human Exploration Missions by providing key insights into technology performance, crew workflows, and environmental adaptation.



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ISRO ANNOUNCEMENTS | 26 AUGUST 2025

ISRO announced Opportunity for UG and PG Science & Technology students to participate in the student session of 23rd National Space Science Symposium (NSSS) 2026

- The 23rd NSSS will be held in NESAC, Umiam, Meghalaya during 23-27 February 2026
- The last date for registering (shortlisting through an online test) for PAN India students is 15th September 2025.
- For details of Student Session and Registration, visit <https://jigyasa.iirs.gov.in/nsss>
- To know about other sessions of NSSS please visit <https://www.nsss2026.in>

National Space Science Symposium - 2026
NESAC, Umiam, Meghalaya
February 23-27, 2026

OPPORTUNITIES FOR STUDENTS


- Exposure to India's space science programme
- Being vocal on India's science exploration plan
- Discuss novel ideas, placing opinions
- Be heard by space leaders


Invited Lectures & Plenary Sessions
- By eminent space scientists

Theme-Based Oral & Poster Presentations
- Research / innovations presentations by students

Interactive Session with Senior Scientists

For details, and the registration link:
<https://jigyasa.iirs.gov.in/nsss>
Deadline for pan India student registration : 15 September 2025






Eligibility

Post-graduate and under-graduate students of Physics, Chemistry, Mathematics, Computer Science, Astrobiology and Technology, studying in educational institutes/Universities/Colleges within India

About NSSS-2026



<https://www.nsss2026.in/>

ISpA ACTIVITIES



National Space Day 2025 at Amity University

As continuation of Space day celebrations on 23rd Aug at national level, Space Day was celebrated at Amity University. What better way to celebrate India's space journey than with young minds brimming with curiosity and ambition?

- As the Supporting Partner, ISpA was delighted to join hands with Amity for this celebration of India's space journey
- DG ISpA Lt Gen Anil Kumar Bhatt (retd) joined as the Chief Guest , energizing students with India's vision for space.
- Students, faculty & space enthusiasts came together to celebrate India's stellar journey. Heartfelt thanks to Amity University for hosting the event.

Catalyzing Collaboration: Strengthening Indo-U.S. Partnerships* 🇮🇳🇺🇸

Lt Gen A K Bhatt (Retd), DG ISpA attended the annual networking reception hosted by Mr. Jonathan M. Heimer, Minister Counselor for Commercial Affairs, in New Delhi on 28th August.

It was indeed a pleasure to meet U.S. Chargé d'Affaires Mr. Jorgan Andrews and Ms. Nathalie Scharf, the Deputy Senior Commercial Officer, U.S. Commercial Service Embassy of the Embassy of the United States of America in India, and have some pivotal conversations.

This was a remarkable opportunity to engage with the U.S. Foreign Commercial Service, exchange notable views with key figures from the commerce industry, and strengthen the crucial partnership between India and the U.S. Such collaborations are vital for fostering innovation and growth across various sectors.



ISpA ACTIVITIES

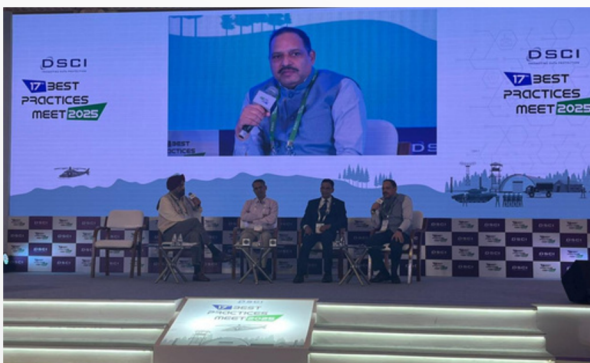
Director ISpA, Gp Capt Anand Rao (Retd) interacted with the Pixxel led consortium, comprising SatSure, PierSight, and Dhruva Space, during the National Space Day celebrations (NSpD 2025) at Bharat Mandapam, New Delhi. 🚀

The consortium has been selected by IN-SPACe for the EO-PPP constellation, a landmark step in strengthening India's space-based Earth Observation capabilities.

The EO-PPP is India's initiative to build a next-gen fleet of Earth observation satellites with the private sector, making space data more accessible and commercially viable.



Director ISpA, Gp Capt Anand Rao (Retd) Participated in a Panel Discussion on Aerospace Security & Resilience at the DSCI Best Practices Meet 2025.



- The discussion brought together senior leaders for an engaging discussion that went beyond the traditional dimensions of warfare, focusing instead on the 4th and 5th dimensions, space, and cyber. The speakers highlighted how multi-domain operations are being prepared and designed for success, with space emerging as a crucial force multiplier.
- They emphasized the rapid changes in defence in space, the increasing role of the Air Force in space exploration, and the critical importance of satellite communication for territorial security and beyond-visual-range operations.
- Other Speakers included: - Lt Gen PJS Pannu, PVSM, AVSM, VSM, Senior Advisor to Space, SIA, Air Commodore Sandeep Satpathy, IAF and Gp Capt Mukund Khare (Retd)

ISpA ACTIVITIES

Space Vision 2047: Charting India's Next Frontier



- Shri Jayant Patil, FNAE - Mentor & former Chairman of ISpA, and Member of the IN-SPACE Board, participated in a panel discussion on "Space Vision 2047: Integration & Implementation at National Level" during the National Space Day celebrations at Bharat Mandapam, New Delhi (23rd Aug 2025).
- His vision and insights reflected how innovation, policy, and national collaboration will shape India's journey to 2047 and beyond.

63rd Anniversary of Jamaica's Independence Day event in New Delhi on Friday, 29 August 2025

It was an honour for the Indian Space Association (ISpA) to join the celebrations for Jamaica's 63rd Independence Anniversary on August 29, 2025. The event was graciously hosted by His Excellency Jason Hall, the High Commissioner of Jamaica to India, in New Delhi.

ISpA's attendance underscored our commitment to strengthening these international relationships and celebrating global cultures.

The evening was elevated by the presence of Chief Guest Anupriya Patel, Union Minister of State, Ministry of Health and Family Welfare, and Ministry of Chemicals and Fertilizers, Government of India. Minister Patel spoke about the deep-rooted ties between India and Jamaica, highlighting the strong diplomatic and cultural bonds shared by both nations



ISpA ACTIVITIES

ISpA hosted the Workshop on "Implementation of NavIC Timing" on August 1st, bringing together military users, industry experts, and timing solution providers to accelerate the One Nation One Time initiative.



Workshops like these are pivotal in aligning national priorities, enabling secure and accurate time synchronization, and ensuring smoother NavIC timing adoption across sectors. Our expert speakers and panelists included:

- Lt Col V Shanmuga Velan (Retd) shared his deep dive into NavIC's precision timing capabilities
- Dr Ashish Agarwal from CSIR-National Physical Laboratory for demystifying how IST is maintained and distributed
- Maj Gen Sanjeev Grover for steering insightful discussions
- Maj Gen Subasis Das for highlighting real-world user perspectives

The response to the workshop was phenomenal, with an excellent turnout and high quality engagement throughout the sessions.

ISpA ACTIVITIES

ISpA intern Mr. Kartik Pandey, along with his team from Sharda University, won ISRO's Robotics Challenge 2025

Congratulations to Kartik and the entire team on this well-deserved success! 🌟

This remarkable achievement highlights the innovation, creativity, and talent driving India's young space community. The results were announced during the National Space Day celebrations (NSpD 2025) at Bharat Mandapam, New Delhi.



ISpA IN NEWS

PixxelSpace-led consortium to build first Indian private earth observation satellite constellation

12 August 2025 | Deccan Herald

Independence Day speech: India to become self-reliant in space; to launch Gaganyaan, space station, says PM Modi

15 August 2025 | Economic Times

India to soon become space superpower, industry grew multi-fold in last 5 years: Experts

15 August 2025 | ap7am.com

Modi's visionary plan to open up space sector a true game changer: ISpA

21 August 2025 | The Hindu

ISRO's Gaganyaan Maiden Launch This December | India Ready To Put A Human In Space? | NewsX

21 August 2025 | NewsX Live

Why India needs a national space law urgently | Explained

21 August 2025 | The Hindu

देश आज मना रहा है National Space Day | अंतरिक्ष की ऊंचाइयों पर भारत

22 August 2025 | Sansad TV

Mudda Aapka: AXIOM पूरे देश का मिशन | 22 August, 2025

22 August 2025 | Sansad TV

Government assistance and PM Modi's leadership promote the expansion of India's private space industry

22 August 2025 | Assam Tribune

Space Economy: The Booming Sector

24 August 2025 | ClearIAS

Indian Space Association backs Draft Telecom Policy 2025, pushes for Satcom integration and regulatory reforms

28 August 2025 | Media Brief


India's space startups team up to share skills and expertise, minimise risk

31 August 2025 | Business Standard

ISpA IN NEWS

■ Viasat's Space for Good Challenge 2025 – A Global STEM Milestone ■

ISpA is proud to be part of **Viasat's** Space for Good Challenge 2025, a global STEI ...more



Lt Gen AK Bhatt (Retd.)
PVSM, UYSM, AVSM, SM, VSM
Director General
Former DGMG, MS & GOC 15 Corps

Viasat: Space for Good Challenge 2025 supported by ISpA

अंतरिक्ष की ऊंचाइयों पर भारत



कृतिका भारद्वाज | ले.जन. अनिल भट्ट (सेवानिवृत्त)

न के विक्रम लैंडर की सफल लैंडिंग की याद में आज मनाया जा रहा है राष्ट्रीय अंतरिक्ष दिवस | 10:59 AM

ASTRONAUT SHUX SAYS 'INDIA IS READY' | newsX 06:25PM

ON THE POWER OF EXPERIENCE



LT GEN (R) AK BHATT

@pibindia | @pibindia

Experience very different from what to learn on the ground

#BreakingNews
BIG DEVELOPMENT

LIVE New Delhi



Lt. Gen. Anil Bhatt (Retd.)
DG, Indian Space Association



कवर स्टोरी 360° | ZBUSINESS



इंडिया 360°

लेफ्टिनेंट जनरल (रिट) ए.के. भट्ट, DG, भारतीय अंतरिक्ष संघ

Tue 15 Jul '25
Sensex 82570.91 317.45

AXIOM पूरे देश का मिशन
अंतरिक्ष का वास्तविक अनुभव जमीन पर सिखाए जाने वाले अनुभवों से कहीं आगे- शुभांशु शुक्ला



मुख्य आपका

पूर्व ले. जनरल अनिल भट्ट

खबरें | रत को 'मन की बात' कार्यक्रम में लोगों के साथ अपने विचार साझा | 20:37

ISpA IN NEWS

SPACE INDUSTRY WANTS PARITY WITH TELCOS ON SPECTRUM NORM

Satcom Cos Seek Licence Fee, SUC & Bank Guarantee Relief

Our Bureau

Mumbai: India's space and satellite companies have called on the government to reduce licence fees and spectrum usage charges (SUC) for satcom services, and ease bank guarantee requirements for spectrum acquired before 2021.

The Indian Space Association (ISpA) has also called for delinking these levies from the Universal Service Obligation Fund (USOF) in its recommendations to the telecom department on the Draft National Telecom Policy (NTP) 2025 on Thursday.

The telecom regulator has suggested that satcom companies pay 4% of their adjusted gross revenue (AGR) as SUC, with a minimum annual charge of ₹3,500 per MHz spectrum block. Additionally, they need to pay 8% of AGR as licence fee for offering commercial services.

Last year, the government relaxed the norms for providing bank guarantees for spectrum acquired in auctions, marking a major relief for terrestrial network companies such as Reliance Jio, Bharti Airtel, and Vodafone Idea. The waiver appli-

Core Demands

Reduce licence fee (8% of AGR)
Cut SUC (currently 4% of AGR, min ₹3,500/MHz)
Ease bank guarantee norms (extend 2021 relief to satcom too)

40-year spectrum rights for investment certainty

2016, and 2021.

ISpA has sought a similar waiver for satellite companies. "We also advocate developing a rolling five-year spectrum roadmap, conducting spectrum audits of public sector undertakings (PSUs) and enabling long-term spectrum usage rights of up to 40 years to promote investment certainty and sector growth," the satcom industry body said in a statement.

ISpA counts Bharti Group-backed Eutelsat OneWeb, Nelco, Hughes Communications, and Inmarsat among its members. It has called for equitable distribution of the

FUND ALLOCATION
Equitable distribution of Digital Bharat Nidhi (DBN) funds satcom & telcos
Embed satcom solutions in BSNL 4G Saturation, BharatNet III, School Broadband initiatives

TELCOS VS SATCOM TREATMENT
Telcos (Jio, Airtel, Vi): Got bank guarantee waiver (2012-2021 auctions)
Satcom: Still paying guarantees → seeks parity

2016, and 2021.

restrial service providers and embedding satcom solutions in flagship programs such as BSNL 4G Saturation, BharatNet Phase III and school broadband initiatives." The DBN is India's revamped universal telecom access fund, replacing the USOF. It channels contributions from telecom operators into the Consolidated Fund of India, which is then allocated to expand high-speed mobile and broadband connectivity across rural, remote, and underserved areas. Among other recommendations, ISpA also sought domestic ecosystem support through a "trusted supplier" certification roadmap to

REGULATORY SIMPLIFICATION
Single-window clearance system
5G
Delicensing VSAT terminals (hub-connected only)

facturing ecosystem, incentives for upstream satellite and space-tech suppliers, and faster testing infrastructure for MSMEs.

For regulatory simplification, it proposed a single-window system for network, frequency and import clearances and delicensing VSAT terminals that connect only to licensed hubs.

The draft NTP published in July this year, outlines India's strategic vision for the telecom sector through 2030, targeting universal 4G/5G connectivity, boosting domestic manufacturing and exports, fostering innovation in technologies like AI

security protocols and silos that the technology will require. Notably, Starlink has not installed its earthstations and consti-

सभी दूरसंचार कंपनियों को दिए जाएं एकीकृत लाइसेंस

जागरण ब्यूरो, नई दिल्ली : जब से सरकार ने सेटलाइट आधारित दूरसंचार कंपनियों को भारत में संचालन की अनुमति देने की मंशा जताई है तब से देश की मौजूदा दूरसंचार कंपनियों और नई प्रौद्योगिकी आधारित कंपनियों के बीच तनाव बढ़ गया है। ऐसे में सेटलाइट आधारित दूरसंचार सेवा देने वाली कंपनियों के संगठन इंडियन स्पेस एसोसिएशन (इस्पा) ने सरकार से मांग की है कि प्रौद्योगिकी चाहे कोई भी हो संचार सेवा देने वाली कंपनियों को एक ही तरह के लाइसेंस दिए जाएं। बताया जा रहा है कि दूरसंचार विभाग इस बारे में पहले से ही विचार विमर्श कर रहा है। इस्पा की तरफ से केंद्र सरकार को अपनी मांगों को लेकर एक विस्तृत पत्र लिखा गया है। इसमें अंतरिक्ष और दूरसंचार क्षेत्र में नियामक सुधारों की मांग की गई है। इस्पा ने नेटवर्क, प्रौद्योगिकी और

- इंडियन स्पेस एसोसिएशन ने मांगों को लेकर लिखा पत्र
- अंतरिक्ष और दूरसंचार क्षेत्र में नियामक सुधारों की मांग की

Defence looks to join hands with satcom services

FROM PAGE 1

offers both Geo and Leo satellite services.

"Multiple trials have already taken place to evaluate the potential of some of our latest offerings, such as OneWeb, in these strategic sectors," Chatterjee added. "Other upcoming Leo offerings are also considered promising for rural broadband because of their extensive capacity enabled by large satellite constellations."

Anil Kumar Bhatt, director general of space industry body, Indian Space Association (ISpA), said satcom services for Indian defence forces have so far been used as a backup to terrestrial and radio communications, even in remote terrain.

"Now, new-age infrastructure and modernization mean that India's defence forces need low-latency Leo satellite networks to make the most of cutting-edge technologies—and also to support operations far beyond Indian borders," Bhatt said.

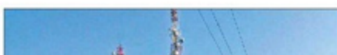
"Even as there are use cases for the government and defence-related activities, these companies will be allowed to serve those sectors only after ensuring that national security norms are not compromised," the second official said.

While agreeing that India needs to modernize satcom in defence, Chaitanya Giri, space fellow at global think-tank Observer Research Foundation, said, "But to do so, geostationary satellites that offer huge bandwidth of data and can be indigenized and concentrated on a solitary area could offer far greater security and faster network connectivity for defence applications. Companies would be encouraged if defence contracts included indigenization contracts."

shouvik.das@livemint.com

Armed forces look to join hands with satcom firms

Defence forces conduct trials with



security protocols and silos that the technology will require. Notably, Starlink has not installed its earthstations and consti-

INDUSTRY HAILS REFORMS; OVER 300 STARTUPS NOW ACTIVE IN SPACE SECTOR

PM Calls For Self-reliance in Space Sector

Puran Choudhary

Bengaluru: Prime Minister Narendra Modi on Friday said India is working towards self-reliance in the space sector and preparing for the launch of Gaganyaan, an indigenously developed spacecraft for its human space flight mission.

"India is actively working on the Gaganyaan mission and is also planning its own space station," Modi said in his Independence Day speech from the Red Fort. "We must come together to change the destiny of our country. I appeal to the youth: step forward and contribute to this mission of national transformation." Gaganyaan will take a crew of three astronauts into a three-day orbit of the earth at an altitude of 400 km in 2027.

Modi also congratulated astronaut Shubhanshu Shukla on his mission to the International Space



Station (ISS). He highlighted the impact of space sector reforms, with about 300 startups working in the space domain.

Industry leaders welcomed the remarks, saying the momentum could help achieve the target of a \$44-billion space economy by 2033.

Former Indian Space Research Organisation (ISRO) chairman S Somanath, who spearheaded the 2023 space reforms through the Indian Space Policy, told ET that Modi's comments underline how the

APPEAL TO YOUTH

I appeal to the youth: step forward and contribute to this mission of national transformation: PM Modi

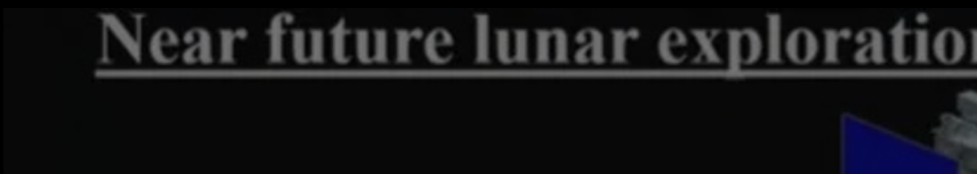
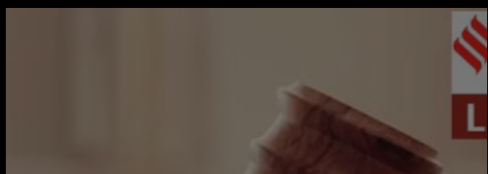
sector is "not just creating jobs and economic value, but also promoting the scientific temper".

He said ISRO, IN-SPACE and NSIL are working with startups to expand both domestic and global markets. On India's plan to build its own Bharatiya Antariksha Station (BAS) by 2035, Somanath said the project, using indigenous technology, would promote global scientific partnerships and serve as a space laboratory for hi-tech, biotechnology, drug discovery and

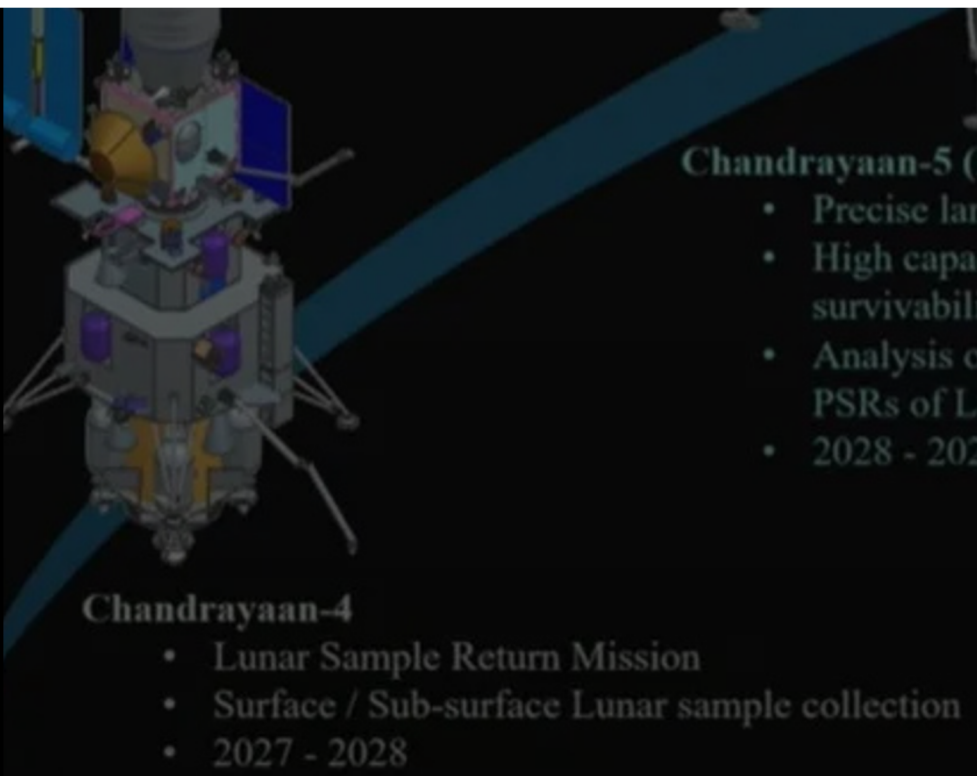
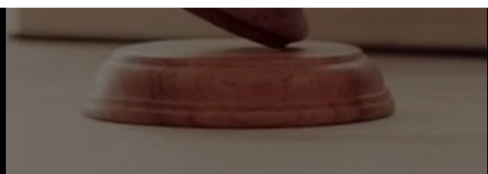
materials research.

"Without the credibility of an indigenous human space mission, meaningful contributions to other space stations may not be possible," he said. "BAS will complement the entire ecosystem, with opportunities for collaboration with other nations."

Industry body Indian Space Association (ISpA) said the plan to open up India's space sector has been a game changer. "Backed by progressive reforms such as the Space Policy, liberal foreign direct investment push and strong government support, the industry has grown multi-fold in just five years," said Lt. Gen. AK Bhatt (retd.), director general of ISpA. Krishanu Acharya, co-founder of Suhora Technologies, which works in earth observation and geospatial analytics, said Modi's remarks will empower the industry to innovate across the value chain.



NATIONAL NEWS



NATIONAL NEWS

TIDCO to set up facility for space vehicles in Thoothukudi, floats tender for consultants

29 August 2025

The New Indian Express

Pixxel's Firefly satellites, Dhruva Space's LEAP-1 placed in orbit by Falcon-9 rocket

28 August 2025

Indian Express

India and Philippines space industries join hands for joint research, co-development

28 August 2025

The Economic Times

India invites Russian firms to invest in innovative space ventures: Envoy

28 August 2025

Business Standard

Satcom cos seek licence fee, SUC & bank guarantee relief

28 August 2025

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IN-SPACe transfers five ISRO technologies to Indian firms to boost indigenisation

27 August 2025

The Economic Times

Kulasekarapattinam launch complex expected to be ready by Dec'26: ISRO Chief

27 August 2025

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It's golden age for India in space research: Shubhanshu

27 August 2025

The Times of India

Watch: Falcon-9 deploys Indian satellites made by Pixxel and Dhruva in space

27 August 2025

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Starlink to launch in India by end-2025: MoS communications

25 August 2025

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People talking of ISRO over NASA is a reality waiting to happen: Shubhanshu Shukla

25 August 2025

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Satellite spectrum pricing still under discussion; govt bars overseas use of Indian gateways: MoS Telecom

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UP Announces Scholarship In Astronaut Shubhanshu Shukla's Name For Space Tech Students

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Gaganyaan: ISRO completes key first integrated drop test

25 August 2025

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Satellites can bridge India's internet divide, but security and geo-political risks loom large

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Permit to Starlink bars copying, decryption of Indian data overseas: MoS Telecom Pemmasani

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"Soon, an Indian going into space, on Indian capsule in Indian rocket from Indian soil": Shukla

25 August 2025 | ANI

Deep space exploration next, prepare for it: Modi to scientist

24 August 2025 | TOI

India's astronaut pool to have women, people from all walks

24 August 2025

Indian Express

12 satellites at Rs 0: A constellation of questions for India's space future

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Axiom-4 proves Gaganyaan crew selection standards are among world's best

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Indigenous clocks delay ISRO's plans to replace defunct Navic satellites

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Beyond galaxies lies our horizon: PM Modi urges youth to join India's astronaut pool

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PM Modi, ISRO unveil India's ambitious space plan: Chandrayaan 4, Space station by 2035

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India should lead global space alliance: Niti Aayog Saraswat

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Govt support, PM Modi's guidance helping India's private space sector grow: Industry

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ISRO shows how Bhartiya Antriksh Space station look like

22 August 2025
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Trai yet to receive DoT's response on satellite spectrum pricings

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First Uncewed Gaganyaan Mission launch likely in December: ISRO Chief

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Texas Instruments' semiconductors power ISRO's NISAR satellite

21 August 2025
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400 students participate in Indian Space Education Conference

21 August 2025
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Union Minister Jitendra Singh on India's quantum leap in space, Moon mission, more

21 August 2025
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Axiom-4 learnings will help train for Gaganyaan: ISRO chief

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India successfully test fires 'Agni V' ballistic missile, why Pakistan is on edge?

21 August 2025
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UIDAI onboards satcom major Starlink for Aadhar-based customer verification

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'Zero-bid' EOS contract has Indian space players asking: 'did Pixxel need it?'

21 August 2025
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Union Ministers to lay papers on table, Parliament to hold special discussion on space programme

21 August 2025
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Bring digital data of all types of lands, including forests, under single geospatial platform for effective monitoring: Karnataka High Court

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ISRO's spaceport at Kulasekarapattinam to be commissioned in 2026-2027

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Siemens Xcelerator empowers space-tech pioneer Skyroot Aerospace in its Digital Transformation

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Satcom: India's game-changer for inclusivity

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India's space sovereignty takes flight

20 August 2025
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ISRO to Launch Spy Satellites GSAT-7R and TDS by Year-End, Strengthening Indian Navy's Communication and Surveillance Capabilities

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Exolaunch to deploy satellites for Capella Space, Pixxel + More on upcoming mission with SpaceX

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ISRO making a 40-storey high rocket to carry 75,000 kg payload to orbit: Chairman Narayanan

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Ax-4 mission with leakage would have been catastrophic, our scientists detected issue: ISRO chief

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From bicycles to the moon: The unbelievable story behind India's space day

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PM Modi embraces Shubhanshu Shukla

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'Today, Indian kids know they can go to space': Shubhanshu Shukla tells PM Modi, crewmates excited about Gaganyaan

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Hijacked satellites and orbiting space weapons; space new battlefield

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India's space research accomplishment on par with developed nations: ISRO chief

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'Indian on moon in 2040': Union minister lays out India's space ambitions

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Inside Skyroot's Max-Q Campus: Crafting India's next rocket

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PM Modi calls for self-reliance in space sector; industry sees growth ahead

15 August 2025
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How ISRO Is Touching Lives: Parliament To Debate Space Programmes Today

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Shubhanshu Shukla returns home; Parliament plans special discussion on mission

17 August 2025
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Indian Space Station by 2035, first Gaganyaan crewed mission by 2027: ISRO Chief outlines roadmap

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NASA-ISRO's \$1.3 Billion Satellite NISAR Deploys Its Antenna In Orbit

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As it braces for maiden rocket launch, Skyroot Aerospace guns for a pie in \$30-billion launch market

15 August 2025
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PierSight bets on SAR constellation to tap global maritime, infrastructure monitoring markets

14 August 2025
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Trump orders easing of commercial spaceflight regulations, boon for Elon's SpaceX

14 August 2025
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Indian armed forces to partner with satcom firms

14 August 2025
Mint

Pixxel-led consortium to use own funds for EO satellite constellation

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Intelsat, Inmarsat, and global players eye India's \$2.3 bn satcom market

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IN-SPACe will support the space start-ups to launch and monetize India's own satellite constellation, chairman Goenka

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Avantel Secures ₹10.11 Crore Order from Hindustan Aeronautics Limited for Airborne Satcom Equipment

13 August 2025
CXO Today

Spectrum Showdown: Why Telcos and Satcom Firms Have Locked Horns Over Airwaves Pricing

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India's space race: From bullock carts to Gaganyaan

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Indian astronauts finish 10 day mars simulation in Ladhak

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DRDO comes up with new ToT policy; ₹1.1 lakh crore worth projects get DAC nod for production in 2024

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India approves its first Maxar-like private satellite data project worth \$135mn

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Pixxel secures \$137 mn to build a commercial home grown constellation

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How Ex-ISRO Engineers Are Building Satellites That Pay Back 100X In Revenues

11 August 2025

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Axiom Space to partner with India for human spaceflight

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ISRO to launch 6500 kg US satellite

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India evolving into one of the world's leading aerospace nations, says ISRO chairman

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Indian space startup Agnikul builds world's largest single-piece 3D-printed Inconel rocket engine, granted a patent in US

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Skyroot tests largest private rocket stage, readies Vikram-1 for orbital launch

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Economic Times

Moon Race II: NASA mustn't take the risk of lunar meltdown lightly

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Live Mint

INR 10 crore space tech centre to be setup in Bengaluru

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Times of India

CM Yogi proposes UP-dedicated satellite mission to mitigate climate threats, eyes new state space policy

7 August 2025

New Indian Express

Data traffic accumulated by Starlink to be stored in India

7 August 2025

Economic Times

Reliance Jio emerges as world's largest telco with 488 mn subscribers: Ambani

7 August 2025

Economic Times

ISRO's third launch pad to be operational by March 2029: Govt to Parliament

6 August 2025 | Tribune India

Satellite to fuel IoT boom in India: GSOA's Isabelle Mauro

6 August 2025

Economic Times

India needs concentrated tooling hubs aerospace and space domain: S Somanath

5 August 2025

Economic Times

Canada's Telesat sees strong business potential in India

5 August 2025

Economic Times

India's expanding space sector has enough space for startups: Ex-ISRO chief

5 August 2025

Times of India

Inspace blocks Chinese owned Asiasat services in India beyond March 2026 Zee JioStar begin migration to other satellites

5 August 2025

Times of India

NavIC, unsung hero of Operation Sindoor, faces critical operational challenges

1 August 2025 | The Federal

Dhruva Space to launch Leap-1 satellite mission aboard SpaceX Falcon-9

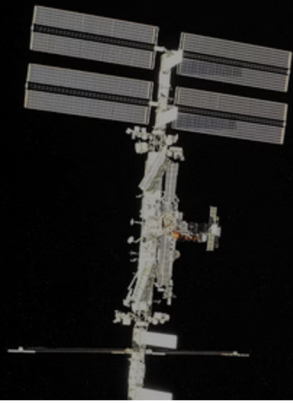
4 August 2025 | India Today

AKSI Aerospace bags Rs 85 cr order from global drone maker, plans USD 5 mn investment

1 August 2025 | The Print

Satcom crucial for connectivity during disasters: TRAI's Lahoti

1 August 2025 | ET



INTERNATIONAL NEWS



INTERNATIONAL NEWS

USA

- [SpaceX's giant Starship Mars rocket nails critical 10th test flight in stunning comeback \(video\)](#)
- [SpaceX just launched disease-causing bacteria to the International Space Station](#)
- [SpaceX scrubs crucial Starship Flight 10 launch again, this time due to weather](#)
- [What's next for SpaceX's Starship Mars rocket after Flight 10 success?](#)
- [SpaceX sends 28 Starlink satellites into orbit, completes 400th Falcon 9 droneship landing at sea \(video\)](#)
- [SpaceX launches 28 Starlink satellites from Florida, lands rocket at sea \(video\)](#)
- [Nobel prize winner and gravitational wave pioneer Rainer Weiss dies at 92](#)
- [NASA's Europa Clipper radar passes key test during Mars flyby](#)
- [NASA's Artemis 2 Orion spacecraft fuels up and moves closer to launch](#)
- [NASA aiming to build nuclear reactor on the moon by 2030](#)
- [NASA Invites Media to Joint Launch of Sun, Space Weather Missions](#)
- [U.S. Transportation Secretary & Acting NASA Administrator Sean P. Duffy Joins President Trump Executive Order Signing to Boost U.S. Space Competitiveness](#)
- [Satellite software firm wins funds in San José's inaugural AI startup incentive program](#)
- [EchoStar's \\$23 billion spectrum sale clears path for direct-to-device constellation](#)
- [SpaceX launches Luxembourg imaging satellite, seven rideshare payloads](#)
- [Rocket Lab USA announced acquisition of \\$275 million Geost.](#)
- [York Space delivers 21 satellites for first deployment of U.S. military network](#)
- [Amentum to modernize launch operations through \\$4B Space Force contract](#)
- [Space Force launches X-37B carrying quantum and comms experiments](#)
- [SpaceX Launches US Military X-37B Space Plane On Mystery Mission](#)
- [How the U.S. space industry became dependent on SpaceX](#)
- [How the US is ceding Asian geopolitical space to China](#)
- [How the US is ceding Asian geopolitical space to China](#)
- [Rocket Lab Expands U.S. Investments in Chipmaking, Space](#)

INTERNATIONAL NEWS

USA

- [Amazon aiming to deploy Kuiper satellite services in Vietnam](#)
- [NASA Eyes \\$700 Million Mars Communication Satellite Ahead of Future Manned Missions](#)
- [EchoStar to sell wireless spectrum licenses to AT&T in \\$23 billion deal](#)
- [Blue Origin postpones launch of 200th payload on 35th New Shepard rocket again due to avionics issue](#)
- [SpaceX cancels Starship megarocket launch at the last minute - All you need to know](#)
- [Snapdragon W5+ Gen 2 and W5 Gen 2 launched with satellite messaging and improved GPS accuracy](#)
- [Jeff Bezos' Blue Origin to launch NASA's Mars mission before Elon Musk's SpaceX](#)
- [Trump orders easing of commercial spaceflight regulations, boon for Elon's SpaceX](#)
- [NASA is getting fired up about a nuclear reactor on the Moon](#)
- [Nasa's \\$67 million Nicer telescope is stuck in space, science suspended](#)
- [Australia owned internet company signs deal with Amazon's Kuiper for satellite internet](#)

INTERNATIONAL NEWS

CHINA

- [China is making serious progress in its goal to land astronauts on the moon by 2030](#)
- [China launches 8th batch of satellites for 13,000-strong internet megaconstellation \(video\)](#)
- [China's lunar lander aces touchdown and takeoff tests ahead of planned 2030 crewed moon mission \(video\)](#)
- [China's moon lander passes key test | Space photo of the day for Aug. 13, 2025](#)
- [Chinese astronauts beef up Tiangong space station's debris shield during 6.5-hour spacewalk \(video\)](#)
- [China's space station sets record with containerless experiment](#)
- [China's first 8K film shot in space to hit the big screen](#)
- [China to build future space hospital to support astronaut health and deep-space exploration](#)
- [Campus Engineering: Chinese institute develops 'electric spider' robot for rescue, space missions](#)
- [China's space station taikonauts now have an AI assistant: Meet Wukong](#)
- [China-built satellite station a 'shining' example of support for Namibian space programme](#)
- [China's new stealth launcher is aimed at space debris. Can it also be used as a weapon?](#)
- [China launches Pakistan's remote-sensing satellite-01 into space](#)
- [China unveils space-debris catcher with possible military use](#)
- [NASA to build nuclear reactor on the moon to stop China's space grab: Report](#)
- [China's Meteoric Rise Into Space](#)
- [With support from China, Pakistan aims to land spacecraft on Moon by 2035](#)
- [China rapidly expands satellite fleet amid strategic space dreams](#)
- [China's CAS Space launches first Latin American payloads on Kinetica-1 rocket](#)
- [Space: China's commercial space sector](#)
- [China to orderly promote opening of satellite communication services, aims for over 10m users by 2030: guideline](#)
- [Sky Grab: China's ambitious plans to dominate the orbital internet race](#)
- [China launches AIRSAT-05 featuring advanced on-orbit intelligence](#)

INTERNATIONAL NEWS

OTHER NATIONS

- [Russia launches mice, microbes and more on monthlong mission to Earth orbit \(video\)](#)
- [The Israel Space Agency Appoints Dr. Maman as New Chairperson](#)
- [Skyrora becomes 1st British company to get license to launch from the UK](#)
- [UK launching new rocket engine test lab on picturesque peninsula immortalized by Paul McCartney song](#)
- [1st Portuguese spaceport could soon emerge as nation grants license for launch center in the Azores \(photos\)](#)
- [Canada's NordSpace begins construction on orbital spaceport. When will it open for launches?](#)
- [Europe regains contact with JUICE Jupiter probe ahead of crucial Aug. 31 Venus flyby](#)
- [South Korea's K-RadCube radiation satellite will hitch a ride on NASA's Artemis 2 moon mission](#)
- [Europe's powerful Ariane 6 rocket launches for 3rd time ever, sending weather satellite to orbit \(video\)](#)
- [In the 21st century, space is the new battlefield](#)
- [New committee members for ASDA](#)
- [Low orbit satellite internet service set to launch in S. Korea next month](#)
- [Avio, Isar Aerospace win first European "Flight Ticket" awards](#)
- [Boeing delivers Nusantara Lima \(SNL\) satellite to PSN, advancing connectivity across Indonesia, Southeast Asia](#)
- [UK Space Agency to join the Department for Science, Innovation and Technology by April 2026](#)
- [ESA wraps up 300-million-kilometre optical communication campaign](#)
- [1,800 Global Leaders Converge in Paris for the Most Powerful Week in Space](#)
- [Belgian Aerospacelab eyes leading IRIS² manufacturing role after raising \\$110 mn](#)
- [Israel to launch NIS 40 million to launch lab for homegrown space tech, research advancement](#)
- [Munich Space Summit was announced: 23-27 March 2026](#)
- [Space Tech Expo Europe: 18-20 November 2025, Bremen, Germany](#)
- [Australia and New Zealand Expand SouthPAN Program with Viasat through \\$252m AUD Award for Additional Satellite Services](#)
- [Get SAT Upgrades Satcom System for Korea Navy P-3C Aircraft](#)
- [Parsons and Globalstar advance satellite communications successful European test](#)

GOVERNMENT POLICIES/ CONSULTATIONS/ RECOMMENDATIONS/ ANNOUNCEMENTS

Uttar Pradesh to launch scholarship in astronaut Sudhanshu Shukla's name for space tech students

Uttar Pradesh Chief Minister Yogi Adityanath announced a new scholarship in the name of astronaut Shubhanshu Shukla, the first Indian man to travel to the International Space Station (ISS), which will support students from the state pursuing higher education in space technology.

CM Yogi proposed Uttar Pradesh dedicated satellite mission to mitigate climate threats, eyes new state space policy

A high-level review meeting chaired by Chief Minister Yogi Adityanath in Lucknow, was attended by ISRO's Space Applications Centre (SAC), Ahmedabad, that recommended initiating a state-level space policy.



Tamil Nadu Global Startup Summit 2025: Disrupt to Rise

Dates: October 9th & 10th 2025

Venue: Codissia Trade Fair Complex, Coimbatore

To Participate: <https://tngss.startuptn.in/about>

The Tamil Nadu Global Startup Summit (TNGSS) 2025 is one of India's biggest startup events and a flagship initiative by StartupTN. It brings together startups, investors, ecosystem enablers, and industry leaders to showcase innovations, highlight Tamil Nadu's rapid startup growth, drive inclusive, startup-led development across sectors.

ISpA UPCOMING EVENTS

INDIA INTERNATIONAL SPACE CONCLAVE (IISC 2025)

The 4th edition of ISpA's annual flagship event (previously Indian Space Conclave), now named the **India International Space Conclave (IISC 2025)**, will be held from **18th to 19th November 2025**, at **The Lalit, New Delhi**.

This year, we are exploring themes under ***"Expanding Horizons: Innovation, Inclusion & Resilience in the New Space Age"***.

IISC 2025 will bring together a diverse and global mix of stakeholders, engaging through panel discussions and impactful industry presentations. The Conclave will explore the future of the global space economy and India's growing role in it.

Held as part of ISpA's Foundation Day celebrations, IISC 2025 will serve as a strategic platform to showcase innovation, deepen international cooperation, and shape policies and partnerships that will define the New Space Age.

For more information, to register & participate, we welcome you to scan the below QR and explore our events page or reach out to our ISpA team.



IspA UPCOMING EVENTS

VIASAT: SPACE FOR GOOD **INDIA FINALS TO BE HELD IN NEW DELHI ON SEPTEMBER 26, 2025**

Viasat: Space for Good 2025 initiative is a groundbreaking global STEM innovation challenge for students. Following the grand success in the US and UK, Viasat has collaborated with BSNL and government agencies for the India edition.

Date: **Friday, 26 September 2025**
Venue: **Shangri-La, New Delhi**

The programme, launched globally in the U.K. and U.S aims to inspire university students to use space technology for societal good. After a rigorous selection process, eight student teams from across India will showcase innovations including space debris recycling, orbital manufacturing, asteroid-based resource harvesting, and advanced propulsion systems.

A distinguished jury of senior officials from IN-SPACe, DoT, MEA, and industry leaders will evaluate their work. The day-long event will culminate with an Awards Ceremony and Networking Dinner at 5:30 PM, bringing together policymakers, academia, and industry to encourage the next generation of space innovators.

We invite all members to attend and show their support.

Please RSVP via the event website or email to Dheeraj.Rathore@viasat.com

<https://www.viasat.com/about/sustainability-impact/corporate-giving/stem/>



IspA UPCOMING EVENTS

AEROSPACE INDUSTRY ROADSHOW - ITALIAN TRADE AGENCY (ITA)

The **Italian Trade Agency (ITA)** is hosting an exclusive **Aerospace Industry Roadshow to India**, organized in collaboration with the **Italian Space Agency (ASI)** and **IN-SPACe**.

A high-level delegation of leading Italian aerospace and space companies will be visiting three key innovation hubs in India from *September 22nd to 26th, 2025*. This roadshow, which is also **supported by the Indian Space Association (ISpA)**, presents a unique opportunity for business matchmaking, technology exchange, and forging new collaborative partnerships.

The delegation's schedule is as follows:

- Hyderabad: 22nd September
- Bengaluru: 23rd September
- New Delhi: 26th September



Concept & Designed by:

Ramya Kapoor

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Founding Members

- Alpha Design Technologies
- Bharti Airtel
- CE Info Systems (Map my India)
- Eutelsat OneWeb
- Larsen & Toubro
- Nelco (A TATA Enterprise)
- Walchandnagar Industries

Associate Members

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- Axon Interconnectors & Wires
- BAE Systems India
- BEML
- Bharat Electronics
- Broadcast Engineering Consultant India
- Capella Space
- ESRI India
- HAL - Aerospace Division
- ICEYE
- INMARSAT India
- LeoLabs
- MAXAR Technologies India
- Nibe Space
- Northstar Earth & Space
- Planet Labs
- SES India
- Tata Advanced Systems
- Tata Consultancy Services

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- Ananth Technologies
- Astra Microwave Products
- Azista Industries
- Bharat Forge
- Centum Electronics
- Godrej & Boyce Manufacturing
- Hughes Communications India
- Ipstar (India)

Start-up Members

- Agnikul Cosmos
- AIDIN Technologies
- Altz Technologies
- Anvikshiki sarvajna
- Astrogate Labs
- Astrome Technologies
- Augsense Labs
- Bellatrix Aerospace
- BES Space
- BosonQ PSI Tech
- Caliche
- CI4
- Computational Imaging Tech (CI-Metrics)
- CYRAN AI Solutions
- Dhruva Space
- Digantara
- Elena Geo Systems
- GalaxEye
- Geo Solutions India
- Hyspace Technologies (SkyServe)
- Indian Technology Congress Association
- Inspecity Space Laboratories
- KaleidEO Space Systems
- Kawa Space
- Kepler Aerospace
- Kerala Spacepark
- Maan Defence
- Manastu Space
- Micronet Solutions
- Omspace Rocket & Exploration
- OnEarth Space TS
- Omnipresent Robot Tech
- OrbitAID Aerospace
- Piersight Space
- Pixxel
- Robinsons Cargo & Logistics
- Saankhya Labs
- Samkalpa Systems
- SatLeo Labs
- SISIR Radar
- Skymap Global India
- Skyroot Aerospace
- Space Machines Co.
- SpaceFields
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