

# NEWSLETTER

## INDIAN SPACE ASSOCIATION



### EXPLORING THE FINAL FRONTIER:

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



**INDIAN SPACE ASSOCIATION**

Bhumandal Se Brahmaand Tak

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.

# HIGHLIGHTS OF THE MONTH

- Agnikul Cosmos successfully launches world's first 3D-printed rocket engine-powered rocket, Agnibaan - SOrTeD, from Sriharikota.
- NewSpace India to handle all IRS satellite data and products
- Clearing the orbiting dead: How ISRO is pushing the Swachh Space programme
- Only Indian entities can disseminate satellite data, say new IN-SPACe rules
- Integrated drop test for Gaganyaan soon
- Mangalyaan-2 unveiled: India poised to become third nation to land on Mars
- Nasa postpones astronaut Sunita Williams Starliner flight to space
- China is Having a 'Strategic Breakout' in Space Too, USSF Intel Boss Warns
- Pak to send second satellite with China's help for digital transformation
- Russia accuses U.S. of seeking to weaponise outer space
- Japanese researchers build the world's first wooden satellite

# MEMBERS BULLETIN

## EUTELSAT ONEWEB

- Spacecom and Eutelsat OneWeb conduct trials combining GEO and LEO satellites for emergency communication services.
- Regulatory delays in India hinder Eutelsat OneWeb's goal to reach 90% global coverage with its LEO broadband constellation.
- Eutelsat reports Q3 sales of 300.8 million euros, confirms full-year outlook with OneWeb network rollout on track.
- OneWeb expected to gain first-mover advantage in India's satcom market, pending interim spectrum allocation.
- Viasat partners with OneWeb to offer multi-orbit maritime broadband services, integrating GEO and LEO satellites.
- Liquid Intelligent Technologies partners with Eutelsat to provide enterprise-grade LEO satellite services across Africa.



## AGNIKUL

- Agnikul Cosmos announces launch window for its maiden sub-orbital rocket, Agnibaan, between May 28 and June 5.
- Launch of Agnibaan rocket postponed for the fourth time due to technical issues.
- Agnikul Cosmos reschedules test flight of Agnibaan's SubOrbital Technological Demonstrator (SOrTeD) for May 30.
- Agnikul Cosmos successfully launches world's first 3D-printed rocket engine-powered rocket, Agnibaan - SOrTeD, from Sriharikota.



## GALAXEYE

- GalaxEye signs MoU with IN-SPACE for access to testing facilities, becoming first beneficiary of IN-SPACE's coworking and testing space.
- Successfully tests all-weather, all-time aerial surveillance technology using synthetic aperture radar (SAR) on NAL's pseudo satellite, enhancing India's defence capabilities.



# MEMBERS BULLETIN



## INTELSAT

- SES to acquire Intelsat for \$3.1 billion, creating a major European satellite player, though concerns about increased debt impacted SES shares negatively.
- Intelsat extends the life of its 10-02 satellite by four years to 2030 using Northrop Grumman's MEV-2 service.
- Intelsat renews long-term content distribution partnership with Sony Pictures Networks India, ensuring delivery of premium entertainment to over 700 million viewers across Asia-Pacific.

## KALEIDEO

- SatSure Analytics India develops a high-resolution optical earth observation payload, marking a significant milestone for the private space sector.
- Successfully aerial-tested payload designed from scratch, showcasing advanced capabilities independent of ISRO designs.
- SatSure plans to launch four satellites in 2026, reducing reliance on costly commercial satellite imagery from limited foreign operators.



## PIXXEL

- Pixxel plans to launch six satellites in 2024 using rockets from ISRO and SpaceX.
- CEO Awais Ahmed highlights the company's focus on satellite readiness and launch timelines.
- Satellites to provide hyperspectral imagery for agriculture, energy, forestry, and environmental monitoring.

## SISIR RADAR

- Indian start-up Sisir Radar uses advanced spy satellite technology to detect mosquito breeding, aiming to prevent mosquito-borne diseases.
- Hyper-spectral imaging technology adapted to identify mosquito larvae in water bodies, aiding targeted insecticide spraying and environmental protection.
- The initiative led by Dr Tapan Misra, founder of Sisir Radar and former ISRO Space Applications Centre director, focuses on reducing malaria and dengue deaths globally.



# MEMBERS BULLETIN



## SKYSERVE

- SkyServe achieves Smart Earth Imaging in orbit, heralding a "Smartphone Moment" for Earth observation.
- Collaboration with D-Orbit enables successful testing of edge computing software stack, STORM, on SpaceX-launched satellite.
- STORM demonstrates capabilities including error correction, cloud and water cover removal, and vegetation identification in real-time.



## Indian Space Progress

Indian Space Progress is the world's only newsletter dedicated to covering the civil Indian space landscape. Written by Jatan Mehta, a globally published space exploration writer, creator & author of Moon Monday, the newsletter contextualizes the progress of key elements driving India's increasingly relevant space capabilities in the global arena—from space technology, launch & exploration to astrophysics & planetary science to commercial & policy developments and more. You can subscribe to Indian Space Progress for free here: <https://jatan.space/subscribe>



# IspA ACTIVITIES

## MOU WITH IIFCL AT IIFCL OFFICE, MAY 7, 2024:

- Indian Space Association signed a Memorandum of Understanding (MoU) with IIFCL Projects Ltd. The collaboration aims to strengthen the Indian Space Sector.



## DG MEETING WITH CHAIRMAN TRAI AT TRAI OFFICE MAY 8, 2024:

- Lt Gen AK Bhatt (Retd), Director General of ISpA, extended congratulations to Shri Anil Kumar Lahoti as the new Chairman of TRAI.
- The chairman was briefed on the existing space ecosystem in India. The emerging space capability of the Indian private sector was discussed.
- The chairman was also apprised of the importance of spectrum for space-based usage.



## DG SPEAKING AT GEOSPATIAL WORLD FORUM IN ROTTERDAM, MAY 13 - MAY 16, 2024:

- DG ISpA attended the Geospatial World Forum in Rotterdam.
- The summit was organized by Geospatial World at Rotterdam Holland World Trade Centre.
- The session was titled "Enhancing Maritime Domain Awareness with Geo Intelligence." DG ISpA, served as a moderator and panellist.
- The event was part of the Geospatial World India Europe Space & Geospatial Business Summit, Rotterdam, Amsterdam.



## IspA INDUSTRY TOUR, BANGALORE MAY 20 - MAY 23, 2024:

- Team ISpA wrapped up a productive week.
- Met with members to discuss the impact of association programs.
- Heard firsthand accounts of how the programs are making a difference in the Indian Space Sector.
- Discussed new programs and activities that need to be introduced.



# IspA ACTIVITIES

## EXTERNAL STAKEHOLDER CONSULTATION MEETING FOR GUJARAT SPACETECH POLICY, MAY 22, 2024:

- The Government of Gujarat contemplated launching the Gujarat SpaceTech Policy to incentivize investors in the ecosystem, develop R&D, build capacity, and improve overall infrastructure.
- A stakeholder-level discussion was invited to gather inputs for formulating and devising an attractive policy to enable the growth of this sector in Gujarat.
- A consultation meeting was scheduled under the chairmanship of the Principal Secretary of the Department of Science & Technology, Government of Gujarat.



## IAFI'S INDIA SPACE POLICY CONFERENCE, MAY 27 - MAY 28, 2024:

- Director ISpA, was a speaker at the ITU-APT Indian Space Policy Conference and presented ISpA views on the session titled "Role of Satellite Networks for Providing Ubiquitous Connectivity Including Satellite Direct to Device (D2D) Connectivity."



# ISpA IN NEWS

**Explore the Dynamics of India's DefSpace Sector:  
Lt Gen Anil Bhatt (Retd), DG, ISpA**  
3 May 2024  
DataQuest

**Indian space startup Agnikul launches country's  
second privately built rocket**  
30 May 2024  
Reuters

**Agnikul successfully launches SOrTeD, achieves  
many firsts**  
30 May 2024  
The Times of India

**IIT-Madras incubated AgniKul launches world's  
first 3D printed, semicryogenic rocket engine**  
31 May 2024  
The Times of India



**Director General  
Indian Space Association (ISpA)**

**Lt Gen Anil Bhatt (Retd)**





# NATIONAL NEWS





# NATIONAL NEWS

## Space companies receive funding under India-Australia programme

1 May 2024  
Deccan Herald

## SC registrar refuses to accept govt's plea for allowing administrative allocation of spectrum

1 May 2024  
The Economic Times

## NewSpace India to handle all IRS satellite data and products

1 May 2024  
The Economic Times

## Govt to go ahead with administrative allocation for satellite broadband

1 May 2024  
Mint

## Space science roadmap formulation meeting held in Bengaluru

2 May 2024  
The Hindu

## India's future will be space industry, drones, semiconductors: EAM Jaishankar

2 May 2024  
ETGovernment

## 2G scam case: D Subbarao's new book calls into question CAG's version of 'presumptive loss'

2 May 2024  
ET Telecom

## Clearing the orbiting dead: How ISRO is pushing the Swachh Space programme

2 May 2024  
Firstpost

## Access to international orbital slots opens new doors for Indian satcom companies

6 May 2024  
The Economic Times

## FDI easing in space sector to lure foreign players, boost high-tech jobs

5 May 2024  
Business Standard

## Only Indian entities can disseminate satellite data, say new IN-SPACe rules

5 May 2024  
The Hindu BusinessLine

## IN-SPACe releases guidelines for implementation of Indian Space Policy 2023

4 May 2024  
The Hindu

## Asian Development Bank open to funding space sector in India: VP Bhargav Dasgupta

3 May 2024  
ET Telecom

## Telcos submit bids to participate in spectrum auctions

7 May 2024  
The Financial Express

## Integrated drop test for Gaganyaan soon

7 May 2024  
The Times of India

## Why spectrum allocation, tech policy must not be a matter of courts

7 May 2024  
The Indian Express

## India to approve private space activity plans in 120 days

6 May 2024  
Fortune India

## ISRO conducts key ignition test

6 May 2024  
The Hindu

## Will Elon Musk's Starlink Revolutionize India's Satellite Communication and OTT Industry?

6 May 2024  
Deccan Chronicle

## Spectrum allocation for satcom delayed, reference to Trai after elections

7 May 2024  
Mint

## Next-gen satellites will paint a clearer picture of a changing Earth

7 May 2024  
Space.com

## Epochal decade. Sky is the limit for India's space technology story

8 May 2024  
The Hindu BusinessLine

## National Space Council will explore military space and intelligence roles and responsibilities

8 May 2024  
Space News

## DoT set to seek clarity, security clearance from NSCS on satcom

10 May 2024  
The Economic Times

## Logo design contest to mark National Space Day

10 May 2024  
Deccan Herald

## Satcom in India has two puzzles to solve before taking off

9 May 2024  
The Economic Times

## Indian space industry offers tremendous opportunity for private players, says ISRO Chief

12 May 2024  
Hindustan Times

## Another feather in ISRO's cap! What is 3-D printed liquid rocket engine that India's space agency successfully tested

11 May 2024  
ET Now

## NSIL seeks private partners to build its heavy lift rocket LVM3

11 May 2024  
The Indian Express

## Indian Army all set to get first Hermes-900 Starliner drones to boost surveillance capabilities

11 May 2024  
Deccan Herald

# NATIONAL NEWS

## India's Growing Space Sector Presses for More Tax Incentives

10 May 2024  
Bloomberg Tax

## NISAR satellite will be able to monitor tectonic movements accurately, says ISRO chief

15 May 2024  
The Hindu

## Meet Captain Gopi Thotakura, Indian pilot set to go to space as tourist

15 May 2024  
India Today

## Space regulator IN-SPACe conferred with global leadership award

15 May 2024  
The Print

## Indian satellites suffered no outages during recent high-intensity solar storms, says ISRO

15 May 2024  
The Indian Express

## Space data fuels India's farming innovation drive

17 May 2024  
ET Satcom

## ISRO's Mars mission strategy unveiled: Helicopter, robotic car, and crane to navigate red planet

16 May 2024  
The Times of India

## Amity University Bengaluru hosts joint workshop with ISRO on space science and technology

16 May 2024  
The Print

## Inside story: How Isro saved Indian satellites from strongest solar storm

16 May 2024  
India Today

## FDI could be eased further under new govt: DPIIT secy

19 May 2024  
The Times of India

## "ISRO aims to explore human space flight activities, build space stations": Chairman Somnath

May 19 2024  
The Economic Times

## Mangalyaan-2 unveiled: India poised to become third nation to land on Mars

17 May 2024  
Business Standard

## DoT aims to notify rules under Telecom Act soon

20 May 2024  
The Economic Times

## India's AstroSat makes unusual discovery around black hole in deep space

20 May 2024  
India Today

## New guidelines could hamper India's promising space industry

24 May 2024  
Deccan Herald

## Devas-Antrix failed satellite deal: Bengaluru startup investors move US Supreme Court against order favouring ISRO's commercial arm

27 May 2024  
The Indian Express

## Isro's journey: From discovering water on the moon to fostering India's space tech startups

27 May 2024  
Forbes India

## EXCLUSIVE: Capt. Gopichand reveals his ambitions for India's space sector and how he hopes to help

29 May 2024  
Firstpost

## India Accelerator's new vertical to focus on robotics, unmanned systems and space

28 May 2024  
The Hindu BusinessLine

## India Accelerator's new vertical to focus on robotics, unmanned systems and space

28 May 2024  
The Hindu BusinessLine

## Thapar Institute to submit proposal to Isro to launch its first student satellite 'Thaparsat'

28 May 2024  
The Economic Times

## 12 from Karnataka take part in ISRO's YUVIKA programme

30 May 2024  
The Hindu

## Astronaut lands at alma mater, shares his space odyssey

30 May 2024  
The Times of India

## Atmospheric data collection tool Radio-Sonde launched from ISRO centre at Samba

29 May 2024  
Siasat.com

## Now India can hope to have its own SpaceX and Blue Origin

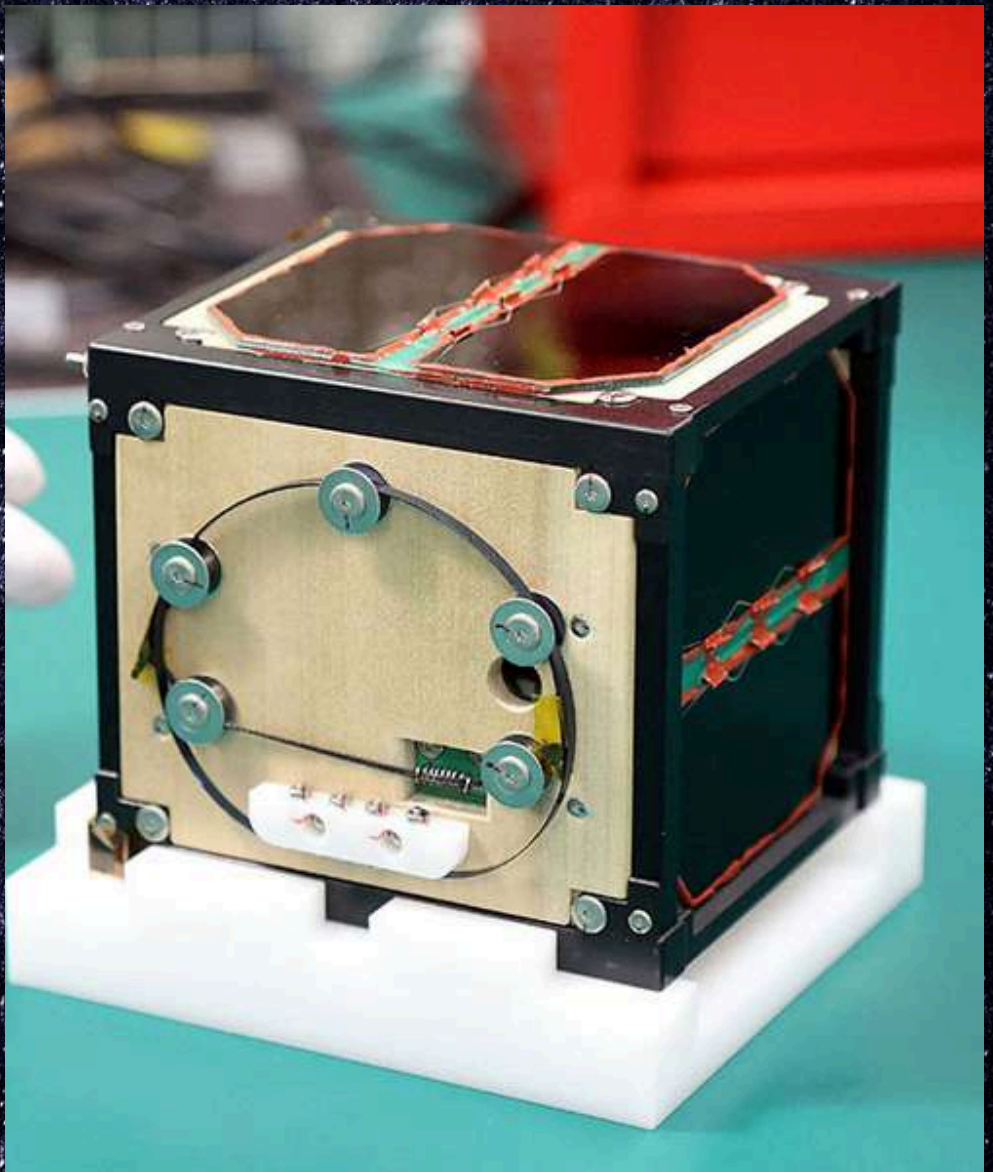
30 May 2024  
The Economic Times

## Space sector globally is drawing interest from private investors, says IN-SPACe's Pawan Goenka

30 May 2024  
CNBCTV18



# INTERNATIONAL NEWS





# INTERNATIONAL NEWS

## USA

### SpaceX unveils cosmic tourism: Here's how to book your ticket to space

1 May 2024  
Business Standard

### Boeing set to launch astronauts to International Space Station in historic mission

5 May 2024  
The Times of India

### Sunita Williams' third space flight aborted hours before liftoff

7 May 2024  
India Today

### Crewed flight of Boeing Starliner space capsule pushed back at least 10 more days

8 May 2024  
Hindustan Times

### Space X's Falcon 9 launches 23 Starlink satellites into space; marks 47th orbital mission

9 May 2024  
The Times of India

### Nasa postpones astronaut Sunita Williams Starliner flight to space

9 May 2024  
India Today

### Starlink soars: SpaceX's satellite internet surprises analysts with \$6.6 billion revenue projection

9 May 2024  
Space News

### Musk's Starlink satellites disrupted by major solar storm

12 May 2024  
The Indian Express

### Viasat Partners With Loft Orbital for NASA Communications Services Project

10 May 2024  
Via Satellite

### AT&T Strikes Space Broadband Deal in Challenge to Musk's SpaceX

16 May 2024  
Bloomberg

### Blue Origin to resume tourism flights to space after near two-year pause

15 May 2024  
India Today

### Elon Musk to launch Starlink satellite in Indonesia on Sunday

16 May 2024  
WION

### 'NASA-type' NSA: Why India's next National Security Adviser should be a space scientist

17 May 2024  
The Economic Times

### Tesla 'silent'; yet to communicate its India plans: Official

17 May 2024  
The Economic Times

### Boeing Starliner's launch aborted again, Sunita Williams' third space mission deferred to May 25

20 May 2024  
The Indian Express

### SpaceX launching next-gen US spy satellites early May 22

21 May 2024  
Space.com

### US To Send Indian Astronaut To International Space Station By Year-End: Envoy

23 May 2024  
NDTV

### SpaceX launches satellites for new US spy constellation

23 May 2024  
The Times of India

### NASA to train Indian astronauts for joint mission to International Space Station

27 May 2024  
Business Today

### America is getting ready for space warfare

27 May 2024  
Mint

### Elon Musk Dominates Space Launch. Rivals Are Calling Foul.

28 May 2024  
The New York Times

### SpaceX Launches European-Japanese Climate Research Satellite | ESA & JAXA Collaborative Mission

29 May 2024  
Moneycontrol

# INTERNATIONAL NEWS

## CHINA

### **Chinese astronauts return to earth after six months in space**

1 May 2024  
The Economic Times

### **China is Having a 'Strategic Breakout' in Space Too, USSF Intel Boss Warns**

2 May 2024  
airandspaceforces

### **Chinese lunar probe set for take-off with Pakistani miniature satellite on board. Details here**

2 May 2024  
Mint

### **China launches moon probe as space race with US heats up**

3 May 2024  
CNN

### **China's satellites are improving rapidly. Its army will benefit**

7 May 2024  
Mint

### **China: CAS Space to launch space tourism flights with panoramic windows by 2027 for this ticket price**

17 May 2024  
Hindustan Times

### **Pak to send second satellite with China's help for digital transformation**

21 May 2024  
The Times of India

## OTHER NATIONS

### **New Russian space weapon raises alarm in US**

7 May 2024  
The Times of India

### **Annual Meridian Forum for Space Diplomacy celebrates the UAE's achievements in the field of space**

8 May 2024  
ANI News

### **Russia accuses U.S. of seeking to weaponise outer space**

22 May 2024  
The Hindu

### **North Korea's bid to put 2nd spy satellite in orbit fails as rocket explodes**

28 May 2024  
India Today

### **Japan to launch first eco-friendly satellite made of wood**

29 May 2024  
The Telegraph

### **Japanese researchers build the world's first wooden satellite**

30 May 2024  
Forbes India

### **South Korea Launches New Space Agency, Doubles Budget**

31 May 2024  
Geospatial World

# JOB OPENINGS

 G N I K U L

  
Azista

BELLATRIX   
AEROSPACE

DHRUVA  
SPACE

DIGANTARA

  
GALAXEYE

 Kawa Space

pixxel

  
SKYROOT  
AEROSPACE

 SkyServe

SATSURE

 TSC

 XOVIAN®  
॥ आ सा द य भ वा न्न ॥

# GOVERNMENT POLICIES/ CONSULTATIONS/ RECOMMENDATIONS/ ANNOUNCEMENTS

- **Consultation Paper on Inputs for formulation of National Broadcasting Policy-2024**  
<https://www.trai.gov.in/release-publication/consultation>
- **Consultation Paper on Auction of Frequency Spectrum in 37-37.5 GHz, 37.5-40 GHz, and 42.5-43.5 GHz bands Identified for IMT**  
<https://www.trai.gov.in/release-publication/consultation>



# UPCOMING EVENTS

Dates	Events	Venue
6th June	IN-SPACe Industry Day 4.0	Ahmedabad
June last week	ISpA Members Meet	New Delhi
23-24th July	ISpA 3rd Annual Gen Meeting	USI, New Delhi
7-10th October	GIFAS Delegation Visit	Delhi-Hyderabad-Banglore
14-18th October	International Astronomical Conference	Milan
15-19th October	IMC 2024	New Delhi
5-7th November	ISpA 3rd Indian Space Conclave	New Delhi

## CALL FOR NEW MEMBERSHIP

ISpA is an apex non-profit industry body, set up exclusively for the successful collaborative development of the Private Space Industry in India.

- Participate in policy advocacy
- Networking and publicity opportunities
- Plethora of opportunities to advance your Business in Space Sector
- Multisectoral Partnerships
- Engagement with industry and defence experts via diverse platforms
- Access to industry-related information via reports and newsletters
- Be a part of ISpA Committees to bring expertise & interests and to guarantee the holistic development of the space sector.

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