

November 2023 Edition

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

- **India's space economy to soar to \$40 billion by 2040: Union Minister Jitendra Singh.**
- MapmyIndia Q2 results: Net profit rises to Rs 33 crore.
- Aditya-L1 will reach Lagrange point on January 7: Somanath.
- Top ISRO scientist V R Lalithambika conferred with highest civilian French honour for space cooperation initiatives.
- Indian astronaut will fly to Space Station in American vehicle: ISRO chief.
- Chandrayaan 3 rocket's body re-enters earth, falls in Pacific: ISRO.
- IAF's redesignation as Air and Space Force will be a step in right direction: Air Chief Marshal Bhadauria.
- UK Space Agency Allots Funds For Space Sustainability.
- Elon Musk's Starlink set to get licence for Satcom ops.
- OneWeb, Jio Satellite get permit to provide internet services.
- ISRO working on ambitious lunar missions LUPEX, Chandrayaan-4: Official.
- ISRO, NASA discuss potential opportunities in space exploration.
- China launches pair of Earth-mapping satellites
- Explained: What is China's 'near-space command' and why the world should be alarmed?
- North Korea received Russian aid for satellite launch -South Korea lawmakers.
- NTT, Sky Perfect JSAT ink collaboration with Project Kuiper to offer satellite broadband in Japan.



- OneWeb, Jio Satellite get permit to provide internet services.
- Eutelsat OneWeb teams with NEC XON to connect Sub-Saharan Africa
- IN-SPACe Grants Approval for Eutelsat OneWeb's Satellite Broadband Services in India
- Bharti-backed OneWeb seeks more time to provide network details
- Eutelsat OneWeb, confirmed that its low Earth orbit (LEO) satellite constellation has successfully connected to University of Surrey's 5G mobile network, supporting 5G QoS levels for the first time.
- Chunghwa Telecom signs agreement with Eutelsat OneWeb to offer satellite services in Taiwan || 15 Nov 2023



- Telecom Diary: Satcom services: New arena for Jio & Airtel!
- India's Jio, Airtel scramble to provide satellite broadband.
- Airtel Plans to Increase Network Coverage Area in Rural India.



- MapmyIndia Q2 results: Net profit rises to Rs 33 crore.
- Punjab Police, MapmyIndia join hands for realtime traffic updates through Mappls app.
- MapmyIndia board approves fundraising of up to Rs 500 crore via QIP.
- MapMyIndia eyes ₹1,000 crore revenue milestone in next 4-5 years.

-  **AGNIKUL** • Space-tech startup Agnikul to flight test 3D-printed engine by year-end.

- Pixxel to launch 24 satellites in next two years: CEO



- Skyroot Aerospace gives sneak peek of Kalam-1200 motor ahead of Vikram

- Manastu Space secures \$3 million in pre-series A funding, Uniphore aims for billion-dollar ARR.



ISRO / Gaganyaan / Department of Space Updates

- Gaganyaan mission: After success of crew module abort test, ISRO eyes uprighting system in 2024: L&T-HAL delivers the propellant ingredients.
- ISRO's Aditya L1 mission captures its first high-energy solar flare.
- ISRO puts NISAR satellite to test in space-like environment ahead of 2024 launch.
- Chandrayaan 3 rocket's body re-enters earth, falls in Pacific: ISRO.
- ISRO working on ambitious lunar missions LUPEX, Chandrayaan-4: Official.
- ISRO, NASA discuss potential opportunities in space exploration.
- Space tech for agri: IN-SPACE course to train 'trainers' through special course at IIT.
- ISRO invites scientists, engineers and academia for capacity building in space-based disaster management support.
- India-Japan Moon mission LUPEX could break the records of Chandrayaan-3.
- Aditya-L1 will reach Lagrange point on January 7: Somanath.
- Deregulation imperative for space sector growth: ISRO chairman Somanath.
- Chandrayaan-3 success shows importance of resilience: Project head.
- Top ISRO scientist V R Lalithambika conferred with highest civilian French honour for space cooperation initiatives.
- Indian astronaut will fly to Space Station in American vehicle: ISRO chief.
- NASA head to visit ISRO facilities in Bengaluru to review NISAR spacecraft.
- NASA, India to launch Earth-observing satellite in 2024.

French Space Command Delegation

IspA along with Defence Space Agency (DSA) and IN-SPACE hosted a meeting of Indian Space Startups with the French Space Command Delegation from the Defence forces of France at the IspA office at Delhi and in Bengaluru. The meeting was attended by more than 20 Indian startups to showcase their products and technology.

The Delegation was led by the Commander of French Space Command (CdE) to discuss the collaborative development between both the countries.



Lecture at National Defence College (NDC)

Director General of IspA Lt Gen AK Bhatt (Retd) gave a lecture on the current scenario and future of the Indian Space Sector during a seminar on “Vision of Indian Space @2047” organized by the National Defence College (NDC).

Indus-X Investors strategy session

IspA Participated in USISPF organized INDUS-X Investors Strategy Session and public launch of the INDUS-X Gurukul Education Series with leaders of defense technology and innovation in India and the United States.

Event discussed the India-U.S. Defense Acceleration Ecosystem (INDUS-X) initiative and strategies to catalyze investment in dual use technologies with critical national security applications in the defense, space and intelligence sectors in support of the Roadmap for India-U.S. Defense Industrial Cooperation.





India's booming space economy Opportunities for downstream spacetech

2 Nov 2023
Times Tech



India's Quest for a Space Station: The Challenges & Opportunities

7 Nov 2023
The Financial Express



Govt to use satcom for rural connectivity under new BharatNet project

9 Nov 2023
The Indian Express



Boom in space tourism threatens to boost the amounts of space junk and climate emissions

9 Nov 2023
Deccan Herald



Unlocking Collaborative Potential: Indian Space Delegation in UAE

16 Nov 2023
DD News



IRevolutionizing Satellite Security: NASA's Groundbreaking Project To Integrate AI, Blockchain, & Nanosatellites

16 Nov 2023
Forbes



India aims to launch moon sample-return mission in the 2020s

21 Nov 2023
space.com



ISpace PSU NSIL set to get three more in-orbit satellites from Isro

24 Nov 2023
Times of India



India's space economy to soar to \$40 billion by 2040: Union Minister Jitendra Singh

26 Nov 2023
Mint



IAF's redesignation as air and space force will be a step in right direction: Air Chief Marshal Bhadauria

25 Nov 2023
The Indian Express



GNLU, DSA collaborate for space law training

28 Nov 2023
The Times of India



Nasa chief's visit spotlights India's space tech potential || 27 Nov 2023 *

27 Nov 2023
Forbes India



Tata Advanced Systems & Satellogic Ink Deal To Build LEO Satellites In India

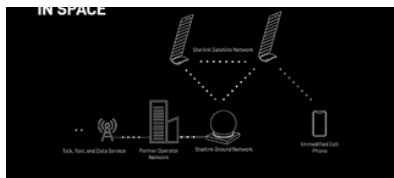
29 Nov 2023
BQ Prime

USA



Starlink achieves cash-flow breakeven, says SpaceX CEO Musk

3 Nov 2023
ET Satcom



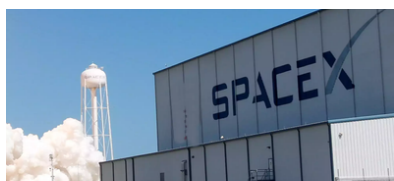
ESpaceX Argues Against Auction Of Satellite Spectrum, Says It Has A Negative Effect On Competition And Affordability Of Services

8 Nov 2023
Medianama



SpaceX launches 90 payloads into orbit on 'rideshare' mission

11 Nov 2023
space.com



Elon Musk's Starlink set to get licence for Satcom ops

8 Nov 2023
The Economic Times



NASA may spend up to \$1 billion to destroy the International Space Station

23 Nov 2023
The Indian Express



'Starlink to Offer Free Internet in Mexico, Gets a \$90 Million Contract

16 Nov 2023
Telecom Talk



NASA's Psyche craft sends message across vast distances in space using DSOC laser tech

24 Nov 2023
The Indian Express



Ready to help Isro for India's first space station: Nasa chief

29 Nov 2023
The Times of India

CHINA



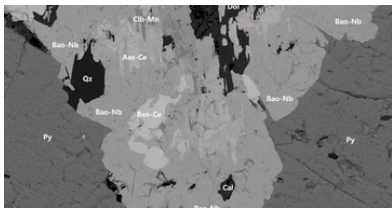
China launches pair of Earth-mapping satellites

space.com
November 2, 2023



China launches new-gen Haiyang ocean monitoring satellite

SpaceNews
November 16, 2023



China takes on Elon Musk's Starlink with hundreds of low-orbit satellites

Business Insider
November 17, 2023



Explained: What is China's 'near-space command' and why the world should be alarmed?

WION
November 21, 2023



China Adds Belarus as Partner for ILRS Moon Base

SpaceNews
November 23, 2023

Other Nations



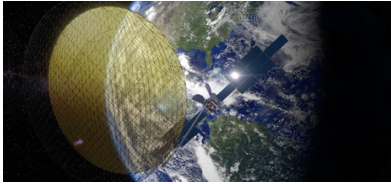
Europe urged not to repeat tech underdog role ahead of space talks

16 Nov 2023
ET Satcom



Europe targets competitive shake-up in space launch deal.

7 Nov 2023
The Hindu



UK Space Agency Allots Funds For Space Sustainability

8 Nov 2023
Geospatial World



Russian lunar mission failed due to outdated technology, software: ISRO scientist

17 Nov 2023
The Indian Express



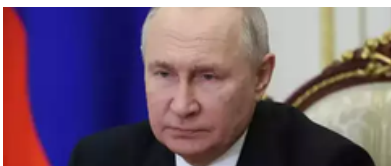
North Korea launches first spy satellite

22 Nov 2023
The Times of India



North Korea received Russian aid for satellite launch -South Korea lawmakers

23 Nov 2023
The Print



Japan space agency hit with cyberattack this summer

29 Nov 2023
Moneycontrol



NTT, Sky Perfect JSAT ink collaboration with Project Kuiper to offer satellite broadband in Japan

28 Nov 2023
ET Satcom

Job Openings from our Members



<https://www.azistabst.com/careers>



<https://www.linkedin.com/company/bellatrix-aerospace/jobs/>



<https://www.dhruvaspace.com/careers>



<https://www.linkedin.com/company/digantara/jobs/>



<https://galaxeye.zohorecruit.in/careers>



<http://lnkiy.in/kawa-space>

Send CV at: support@kawa.space



<https://www.pixxel.space/careers>



<https://skyroot.in/career.html>



<https://www.linkedin.com/company/skyserve-ai/jobs/>



<https://tsctech.in/#/careers>



<https://xovian.zohorecruit.com/jobs/Careers>

TRAI releases Telecom Subscription Data as on 31st August, 2023

https://www.inspace.gov.in/inspace?id=inspace_disaster_urban_page

IN-SPACE has enabled transfer of ISRO's technologies to Indian entities.

<https://www.meity.gov.in/content/announcement-1st-joint-call-proposal-under-meity-nsf-research-collaboration>

IN-SPACE authorized launch of VIKRAM-S Suborbital Vehicle (PRARAMBH Mission) scheduled on November 18, 2022 between 11:00 - 12:00 Hrs from sounding rocket complex, Satish Dhawan Space Centre, ISRO.

https://www.inspace.gov.in/inspace?id=inspace_archive_updates_spaceneeds&type=update

Extension of last date to receive comments|counter comments on TRAI's Consultation Paper on Assignment of Spectrum in E&V Bands, and Spectrum for Microwave Access (MWA) & Microwave Backbone (MWB)

<https://www.trai.gov.in/notifications/press-release/extension-last-date-receive-comments|counter-comments-trais>

Extension of last date to receive comments|counter comments on TRAI's Consultation Paper on Assignment of Spectrum in E&V Bands, and Spectrum for Microwave Access (MWA) & Microwave Backbone (MWB)

<https://www.trai.gov.in/notifications/press-release/extension-last-date-receive-commentscounter-comments-trais-14>

Extension of last date to receive comments|counter comments on TRAI's Consultation Paper on Open and De-licensed use of Unused or Limited Used Spectrum Bands for Demand Generation for Limited Period in Tera Hertz Range

<https://www.trai.gov.in/notifications/press-release/extension-last-date-receive-commentscounter-comments-trais-15>

Extension of time for receiving comments on Consultation Paper on Review of Quality-of-Service Standards for Access Services (Wireless and Wireline) and Broadband (Wireless and Wireline) Services

<https://www.trai.gov.in/notifications/press-release/extension-time-receiving-comments-consultation-paper-review-quality>

Upcoming Events

10-14 December 2023	IEEE MAPCON 2023	Ahmedabad
11-15 December 2023	American Geophysical Union (AGU) 2023	USA & Online
31 January-04 February 2024	42nd meeting of the Astronomical Society of India (ASI) 2024	Bengaluru Gandhinagar
10-12 January 2024	Vibrant Gujrat Global SUMmit 2024	
26 February 2024 - 1 March 2024	ISRO 22nd National Space Science Symposium (NSSS-2024)	Goa
18-20 April 2024	2nd Indian DefSpace Symposium	New Delhi
13-21 July 2024	45th COSPAR Scientific Assembly - COSPAR 2024	South Korea
06-15 August 2024	XXXII IAU General Assembly	South Africa
25-27 September 2024	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.

[JOIN US](#)

- 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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