

**REGISTRATIONS
ARE OPEN**
www.ispaevents.space/indian-space-conclave-2023



August 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.

Our special congratulations to ISRO for once again putting India on the Global Space Map by successfully soft-landing on the moon. Kudos to all our scientists, technicians and engineers. The nation takes immense pride in your unparalleled achievement which shows India's strong spirit of space exploration and our prowess in the space domain.

- Director General, ISpA

HIGHLIGHTS OF THE MONTH

- India made history by becoming the first nation to achieve a successful soft-landing on the south pole of the moon with the Chandrayaan-3 Vikram Lander.
- ISRO PSLV-C57 successfully launched the Aditya-L1 spacecraft, from the Second Launch Pad of SDSC, Sriharikota.
- L&T, Walchandnagar Industries, Ananth Technologies, Godrej Boyce, Centum Electronics contributed to the realization of Chandrayaan-3 Mission.
- L&T, Walchandnagar Industries, Ananth Technologies, Godrej Boyce, Centum Electronics, Astra Microwave Products contributed to the realization of Aditya-L1 Mission.
- OneWeb successfully demonstrated LEO satellite capabilities at the International Committee of the Red Cross in Geneva, Switzerland.
- Astra Microwave bagged orders worth ₹158 crore for the supply of Satellite sub-systems, Airborne Radar and sub-systems of Radar and EW projects, from DRDO, ISRO and DPSUs.
- OneWeb Technologies, a wholly owned subsidiary of OneWeb, and Hughes Network Systems, have each been awarded significant contracts by the US Space Force.
- Godrej Security Solutions, secured project to provide an advanced Key Management System to SHAR (SDSC-SHAR).
- GalaxEye unveiled a high-resolution aerial drone-based SAR system.
- ISRO has transferred the IMS-1 Satellite Bus Technology to Alpha Design Technologies and Dhruva Space.
- SatSure has closed a Series A round of \$15 million in equity capital and venture debut.
- Manastu Space announced closure of \$3 million pre-series A funding round led by Capital 2B, BIG Capital, and E2MC Ventures.

ISpA Members Contribution to Chandrayaan-3

Larsen & Toubro (L&T) has supplied various components for India's lunar mission, Chandrayaan-3. The company revealed that components such as the "middle segment and nozzle bucket flange" were manufactured at its facility in Powai, while the ground and flight umbilical plates were produced at its aerospace manufacturing facility in Coimbatore.



Walchandnagar Industries manufactured components of the lunar mission vehicle, the first-stage booster and "flex nozzle control tanks" with a height of 80 feet and diameter of more than 12 feet.

Godrej & Boyce

- Godrej Aerospace has contributed to the manufacturing of L110 engine for the core stage and the CE20 engine thrust chamber for the upper stage on LVM3 (Launch Vehicle Mark III), ISRO's heaviest launcher.
- For Chandrayaan 1, it contributed the Vikas engine, thrusters, critical parts for remote sensing antenna and ground system antenna.
- For Chandrayaan-2, it contributed the L110 engine and CE20 engine for the launcher GSLV Mk III, thrusters for the Orbiter and Lander, and components for the DSN antenna.



Centum Electronics provided more than 200 mission-critical modules and subsystems to LVM3 M4/ Chandrayaan-3 mission.

Ananth Technologies

- Ananth has contributed to the launch vehicle (LVM3), in the realization of many of the avionics packages like on-board computers, navigation system, control electronics, telemetry, and power systems. Various interface packages, power switching modules, relay and balancing units, and others for the latest launch were also done by the firm.
- Many major satellite systems for the Chandrayaan-3 program including telemetry, telecommand, power management systems, and DC-DC converters for the mission were realized by ATL.



ANANTH TECHNOLOGIES

ISpA Members Contribution to Aditya-L1 Solar Mission

Larsen & Toubro (L&T) have made following significant contributions -

- Middle Segments
- Honeycomb Deck Panels
- 32-m Antenna
- Precision Monopulse Tracking Radar
- System Integration & Launch Support



Walchandnagar Industries -

Core stage of the launch vehicle - PSLV is the S139 Booster that is augmented by solid rocket strap-on motors (PSO-XL) to augment the thrust provided by the first stage.

The S139 Motor Casings (Head end & Nozzle end segments) & PSO-XL flown in the PSLV C57 mission are manufactured by Aerospace group at WIL's exclusive facility.

Godrej & Boyce -

- Godrej Aerospace has contributed to the Vikas Engine and thrustors used for ISRO's PSLV Aditya-L1 mission



Astra Microwave Products Ltd.

Astra Microwave Products Ltd. Has contributed 4 modules in Aditya -L1 Mission Namely

- X band SSPA 10W in Telemetry Transmitter, Qty 2 nos.
- X band SSPA 4W in Data Transmitter, Qty 2 nos.

Centum Electronics



• **PSLV-C57 (93 Modules & Subsystems):**

- **Telemetry:** Data Acquisition Units; SMT DC-DC Converters; TEX Modules
- **RESINS (Redundant Strap down Inertial Navigation System)-Mk IV:** Inertial Microelectronics Modules
- **Advanced Inertial Navigation Electronics:** Accelerometer Electronics; Accelerometer Processing Electronics

• **Aditya-L1 (145 Modules & Subsystems):**

- Microelectronics for Bus Systems
- Onboard Data Handling System (ODHS) Electronics
- Wheel Drive Electronics Modules
- Inertial Referencing Accelerometer Package (IRAP)
 - IRU Microcircuits; Accelerometer Electronics; Accelerometer Processing Electronics



Ananth Technologies

- Ananth Technologies, played a pivotal role in the Aditya-L1 Program by manufacturing numerous avionics packages. These packages encompass a wide array of components, including on-board computers, Star sensor, Modular EED systems, payload DC-DC converters, etc.
- For PSLV-C57 launch vehicle, ATL supplied 48 subsystems such as SARB, NGCP, Quad SBU, tracking transponder and various other interface units and did complete Assembly, Integration and Testing (AIT).



- Eutelsat has scheduled a shareholder vote Sept. 28 to get the final approval needed to take over OneWeb after clearing all regulatory hurdles for the multi-orbit merger.
- OneWeb has signed a Distribution Partnership Agreement with IP Access International, a provider of terrestrial and space based mobile connectivity to enterprise and public safety markets, to deliver high-speed, low-latency broadband connectivity across the United States.
- OneWeb announced that it took part in a successful demonstration of LEO satellite capabilities at the headquarters of the International Committee of the Red Cross in Geneva, Switzerland. OneWeb, successfully streamed 4K video feeds, ran Microsoft Teams and GoogleEarth applications at up to 150 Mbps download speeds; up to 29 Mbps upload speeds; and latency levels as low as 70 ms.
- This September, OneWeb will be launching a “try before you buy” service with the Kymeta Peregrine u8 LEO terminal, a new UT purpose built for maritime applications. Kymeta’s compact, low-power UT, pairs seamlessly with OneWeb’s LEO network.
- Sat One signs multi-million, multi-year deal to provide OneWeb’s low Earth orbit satellite services to Australia and New Zealand. The partnership will cover all enterprise and government sectors with fixed, mobility and maritime offerings.
- OneWeb Technologies, a global provider of high-speed, low latency, secure, multi-orbit satellite network solutions, announced that it was awarded a Commercial Satellite Communications Proliferated Low Earth Orbit (p-LEO) contract from the U.S. Space Force (USSF), Space Systems Command (SSC), Commercial Space Office (CSO), and Commercial Satellite Communications Office (CSCO). The 10-year p-LEO contract was awarded to OneWeb Technologies with a \$900 million dollar ceiling.
- “We are almost ready. In India, we will hopefully have the policy in place. Our satellites are up, ground stations are in advanced stages. I think it’s a matter of 60 days, we will be ready and I am hopeful something comes to us,” Sunil Bharti Mittal, Chairman, Bharti Enterprise



MapmyIndia Mappls, the digital maps platform announces a new campaign 'Har Ghar Tiranga' & 'Meri Maati Mera Desh' to commemorate India's Independence Day, where, Mappls app on both Android and iOS devices highlights physical flag hoistings, memorials of freedom fighters, and gardens.

MapmyIndia
MAPPLS



ISRO has transferred the IMS-1 Satellite Bus Technology to Alpha Design Technologies. IMS-1 is an Earth observation satellite in a sun-synchronous orbit developed by URSC-ISRO.

Astra Microwave Products share price jumped more than 7% to hit a fresh 52-week high on Friday after the company won orders worth ₹158 crore for satellite and radar systems. Astra Microwave bagged orders for supply of Satellite sub-systems, Airborne Radar and sub-systems of Radar and EW projects, from Defence Research and Development Organisation (DRDO), the Indian Space Research Organisation (ISRO) and Defence Public Sector Undertakings (DPSUs)



Astra Microwave Products Ltd.

HUGHES

- Hughes Network Systems, said that the company is willing to bring in new investment for capacity expansion and make in India initiatives following the recently-unveiled space policy.
- OneWeb Technologies, a wholly owned subsidiary of OneWeb, and Hughes Network Systems, have each been awarded significant contracts by the US Space Force. OneWeb Technologies has secured a 10-year Commercial Satellite Communications Proliferated Low Earth Orbit (p-LEO) contract, while Hughes Network Systems has been granted a five-year Indefinite Delivery Indefinite Quantity (IDIQ) contract for low Earth orbit (LEO) satellite-based services

Amazon will launch the first two satellites for the Kuiper program, which aims to offer internet globally from space, aboard a dedicated Atlas V rocket from the Boeing-Lockheed joint venture United Launch Alliance (ULA), spokesman James Watkins said. The targeted launch date is Sept. 26

amazon

Godrej Security Solutions, has recently secured a significant project to provide an advanced Key Management System to Satish Dhawan Space Centre SHAR (SDSC-SHAR), India's esteemed Spaceport.



Eutelsat Asia has signed a partnership with Thaicom subsidiary Space Tech Innovation (STI) to expand satellite coverage and enhance capacity over Asia.

BEL aims for Rs 20,300 crore turnover in 2023-24, fueled by growing indigenous product demand. BEL is exploring solutions for civil aviation, anti-drone systems, space/satellite electronics, satellite communication services, solar business, railway and metro solutions, homeland security, smart meters, and medical electronics.



GalaxEye unveiled a high-resolution aerial drone-based Synthetic Aperture Radar (SAR) system, which the space technology startup said can perform detailed, high-resolution all-weather imaging. GalaxEye said that its in-house developed 'data fusion technology' will deliver detailed insights and data from space, enabling satellite constellations to conduct all-weather imaging without facing hindrances that "plague" current single sensor satellites.

GalaxEye Space won the Startup Award at the Defence Tech Expo Tamil Nadu.



GalaxEye Space was featured under 10 SmallSat Startups in the ViaSatellite-renowned space media watchlist.



In preparation of its maiden controlled sub-orbital flight, Agnikul Cosmos on August 15 commenced integration of its launch vehicle- Agnibaan SOrTeD (SubOrbital Technological Demonstrator) - with its private launch pad located at Satish Dhawan Space Centre (SDSC) SHAR in Sriharikota. The startup is hopeful of the first flight of Agnibaan in two months' time. Agnibaan SOrTeD is a single-stage launch vehicle driven by Agnikul's patented Agnilet engine – an entirely 3D-printed, single-piece, 6 kN semi-cryogenic engine.

Members Bulletin

SatSure has closed a Series A round of \$15 million in equity capital and venture debut, led by Baring Private Equity Partners and Promus Ventures. The round also saw participation from Omdiyar Network India and xto10X along with existing investors such as Force Ventures, Luckbox Ventures and IndigoEdge Advisors.



Manastu Space announced the successful closure of \$3 million pre-series A funding round led by Capital 2B, BIG Capital, and E2MC Ventures.

ISRO has transferred the IMS-1 Satellite Bus Technology to Dhruva Space. IMS-1 is an Earth observation satellite in a sun-synchronous orbit developed by URSC-ISRO.



DG-ISpA Inaugurated the new office of Suhora Technologies in Noida, Delhi-NCR.

SUHORA is organized a webinar in collaboration with SatVu, on the Highest Resolution Spaceborne Thermal Imagery.



Webinar Link: <https://event.webinarjam.com/go/live/3/7y9wvckfqsmw>

Successful Soft Landing of Chandrayaan-3



India made history by becoming the first nation to achieve a successful soft-landing on the south pole of the moon with the Chandrayaan-3 Vikram Lander. To commemorate the remarkable achievement of Chandrayaan-3's landing on the moon, PM Modi declared 23rd August as the National Space Day in India.



ISpA welcomes the Government of India's declaration of the National Space Day on 23rd August.

On the occasion of 1st National Space Day, ISpA is proud to unveil the forthcoming **3rd Edition of the Indian Space Conclave** from **23rd-25th August 2024** which embodies our dedication to space exploration and the growth of the private sector.

Status: Chandrayaan-3 Mission

- 24 Aug: The Ch-3 Rover ramped down from the Lander and India took a walk on the moon.
- 27 Aug: The first observations from the ChaSTE payload onboard Vikram Lander.
- 28 Aug: LIBS confirms the presence of Sulphur (S) on the lunar surface through unambiguous in-situ measurements.
- 30 Aug: APXS on-board Ch-3 rover detects the presence of minor elements.
- 31 Aug: RAMBHA-LP on-board Chandrayaan-3 measures near-surface plasma content.
- 31 Aug: ILSA listens to the movements around the landing site.
- 04 Sept: The lander and rover are in sleep mode. Awaiting their awakening around September 22, 2023.

Successful Launch of Aditya-L1

PSLV-C57 successfully launched the Aditya-L1 spacecraft, from the Second Launch Pad of Satish Dhawan Space Centre (SDSC), Sriharikota.

After a flight duration of 63 minutes and 20 seconds, Aditya-L1 spacecraft was successfully injected into an elliptical orbit of 235x19500 km around the Earth. Aditya-L1 spacecraft will undergo four earth-bound orbital maneuvers before placing in the transfer orbit towards the Lagrange point L1. Aditya-L1 is expected to arrive the intended orbit at the L1 point after about 127 days.

Current Status (5 Sept): Second Earth-bound manoeuvre (EBN#2) is performed successfully. The new orbit attained is 282 km x 40225 km.



NISAR Utilization Programme (NISAR UP) for Indian Researchers

NISAR UP seeks project proposals from researchers, academicians, and scientists affiliated with Indian Government organizations and Government-recognized institutions, universities, and departments. The programme, offered by the Space Applications Centre (SAC)/ISRO, looks to support 3-year projects, through an open data policy, in diverse application themes, such as agriculture, forestry, hydrology, snow/glaciers, disaster management, and more, using the L & S-band SAR data from NISAR.

For more info: <https://www.isro.gov.in/NISARUtilizationProgramme.html>



Chandrayaan-3 Maha Quiz
<https://isroquiz.mygov.in/>

**Private Industry
Contribution featured
in DefStrat Magazine**

[Click here to read](#)

MISSION GAGANYAAN UPDATE

- The 2E Gaganyaan Pro Model Engine was fired for about 670 seconds at the IPRC and the test met all predetermined parameters.
- Vikram Sarabhai Space Centre (VSSC) successfully conducted a series of Drogue Parachute Deployment Tests at the Rail Track Rocket Sled (RTRS) facility of the Terminal Ballistics Research Laboratory in Chandigarh.



We are honoured to share that our DG Lt Gen AK Bhatt (Retd) has been appointed as the Chairperson of the Board of Governors (BoG) of the Indian Institute of Information Technology, Kota by Hon President Smt Droupadi Murmu.

ISpA position on Spectrum Allocation of Space based Communication Services

ISpA and all our members strongly believe that for the growth of the nascent space industry, spectrum needs to be allocated by Administrative method and frequency such as the 28 GHz band which is globally allocated for space, should continue to be there for SatCom usage.

Administrative allocation provides a level of certainty and predictability that can be beneficial for the satellite communication industry. With auctions, there is always a risk that spectrum will be allocated to entities that are not best suited to provide the required services. This uncertainty can make it difficult for operators to plan and invest in their networks effectively.

Read Complete ISpA Comments: https://www.trai.gov.in/sites/default/files/ISpA_02062023.pdf

ISpA Activities

To The Moon and Beyond: How India can become a Technology Superpower Seminar at Rishihood University

On August 23, the day Chandrayaan-3 made the historic landing, ISpA engaged with high school students from NCR as well as students of Rishihood University to witness the iconic moment. DG-ISpA delivered a session for the students giving them a glimpse into space exploration, informing them about India's space journey, where the industry is headed as well as educational opportunities that the students can explore to learn more about the space sector.

Dir-ISpA also engaged in a candid conversation with students alongside Ravinder Singh, ISpA NAC Member while the Chandrayaan-3 landing was live-screened in the background. Hundreds of students filled the auditorium with loud cheering and clapping as Vikram soft-landed on the moon, making India the first country to land on the lunar South Pole.



IIITD Techfest Esya'23 - SpaceHackathon

IIITD hosted SpaceHack in collaboration with ISpA as one of its Supporting Partners, a 24-hour hackathon tailored for space enthusiasts as part of Esya'23, the annual tech-fest. Multiple teams, each comprising up to five individuals, embarked on tackling challenges associated with space technology, as outlined in the Request For Proposals (RFP). The aim of SpaceHack was to foster collaboration and knowledge sharing among space enthusiasts and provide a platform for like-minded individuals to come together and exchange ideas.

ET Telecom Digital Telco Summit 2023

DG-ISpA attended the fourth edition of Digital Telco Summit, organised by ET Telecom together with TRAI Center of Studies & Research (TCSR). The event convened high-ranking executives from telecom carriers, technology providers, prominent enterprises, system integrators, as well as regulatory and government officials to deliberate on the 4G-5G-led digital transformation, opportunities and challenges.



Chandrayaan-3 feels lunar gravity, to push space economy of India

6 Aug 2023
Business Standard

Space-Based Internet, International Collaborations — New Opportunities For India In Space Sector, And What Experts Say

11 Aug 2023
ABP Live

Industry reaction on PM Modi Independence Day Speech

15 Aug 2023
ET Now Swadesh

From L&T to Godrej & Boyce: What role has India Inc played in Chandrayaan-3?

22 Aug 2023
Business Today

Chandrayaan 3 पर Indian Space Association के DG Anil Kumar Bhatt को सॉफ्ट लैंडिंग का पूरा भरोसा !

22 Aug 2023
Republic Bharat

Anil Kumar Bhatt : चंद्रमा पर सॉफ्ट लैंडिंग का इतिहास रचेंगा भारत

22 Aug 2023
News Express

Lt Gen AK Bhatt Says The Lander Has Given Us First Step To What Would Manifest Into A Lunar Economy

23 Aug 2023
India Today

Chandrayaan-3 Mission

23 Aug 2023
India TV



Ready for lift-off: Why India's space tech ecosystem will require more govt interventions

20 Aug 2023
Business Today Magazine

Special Broadcast | भारत के अंतरिक्ष में बढ़ते कदम | India's growing steps in space sector

11 Aug 2023
DD News

What went wrong with the Luna 25? | Inside Story

21 Aug 2023
Al Jazeera

Chandrayaan-3 Countdown: India's Tryst With The Moon LIVE | ISRO Sriharikota | PM Modi

22 Aug 2023
Hindustan Times Digital

Moon Mission पर Chandrayaan 3 क्या-क्या करेगा? Indian Space Association के DG ने बताया | Hindi News

22 Aug 2023
Times Now Navbharat

Chandrayaan 3 Live Updates | PM Modi to virtually address attempted moon landing in South Africa

23 Aug 2023
CNBC TV18

Chandrayaan-3 Landing: चांद पर भारत ने लहराया तिरंगा, चंद्रमा पर उतरने वाला चौथा देश बना

23 Aug 2023
NDTV

Over the Moon: Chandrayaan readies to land, India Inc prepares to take off

23 Aug 2023
Business Standard

'India is on the moon', says space agency chief

23 Aug 2023
Al Jazeera

Chandrayaan-3 harbinger of success opportunities for private players: space industry

23 Aug 2023
The Print (PTI)

Space industry, academicians hail India's historic moon landing

23 Aug 2023
The Hans India (IANS)/ Daijiworld/
Bhaskarlive

Chandrayaan-3 mission: Make in India gets shot in arm as ISRO breaks new ground

24 Aug 2023
Hindustan Times

Economy Today | Special Interaction with Lt. Gen. Anil Bhatt (Retd.), DG, Indian Space Association

24 Aug 2023
DD News

Chandrayaan 3: Read congratulatory messages tech companies

24 Aug 2023
Gadgets Now

With India on top of the moon, experts expect positive policy changes

27 Aug 2023
Morung Express (IANS)/ The Newsmen/ The Hawk

BT India@100: Manufacturing is key for India to become a high-income country by 2047, say industry heads

26 Aug 2023
Business Today

A small step to the moon, a giant leap for India's space ambitions

24 Aug 2023
The Economic Times

Corporates hail Chandrayaan-3 Moon landing

23 Aug 2023
Deccan Herald (PTI)

ISpA hails Chandrayaan-3 touchdown as an epochal Indian milestone

23 Aug 2023
The Financial Express/ Fonearena/
Communications Today/ Dataquest/
Telecom Drive

Chandrayaan-3 mission: Indian space tech startups hail ISRO for historic feat

23 Aug 2023
Moneycontrol/ Tech Crunch

In giant leap, India steps on the moon

24 Aug 2023
Mint

Increased private participation to fuel Indian space economy: ISpA chief

27 Aug 2023
ET Telecom (IANS), Prokerala/
Daijiworld

How Chandrayaan-3 will help India dominate 'Moon Economy' and geopolitics of outer space

26 Aug 2023
FirstPost

Space tech startup funding picks up pace

30 Aug 2023
The Times of India



Space junk: India says object found in Australia is theirs

31 July 2023
BBC



Spectrum rules may not be same for all satcom companies

3 Aug 2023
ET Telecom

OTT players may have been removed from new telecom bill

5 Aug 2023
The Economic Times



Opinion: To Tackle Space Debris, ISRO's "Swachh Antriksh Abhiyan"

7 Aug 2023
NDTV

PSLV-C56 spent stage de-orbited to minimise space debris

7 Aug 2023
Deccan Herald



GSAT-24 satellite to provide enhanced DTH coverage across India: Telecom & I&B secretary Chandra

7 Aug 2023
ET Telecom

'We need to make our launch vehicles bigger, more powerful': Annadurai

8 Aug 2023
The Week

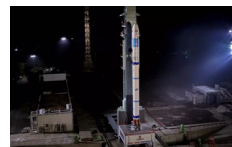


Japan in talks with ISRO for using data from lunar, solar missions

9 Aug 2023
The Hindu

Broadband India Forum Supports ICRIER Working Paper's Findings Against Satellite Spectrum Auctions

10 Aug 2023
APN News



GSAT-24 heralds India's successful entry into DDMS: ISRO

11 Aug 2023
The Statesman

Centre approves establishment of new spaceport in Kulasekarapattinam for launching SSLVs: Jitendra Singh

11 Aug 2023
The Hindu BusinessLine



Progress of science is inextricably linked to the progress of a nation: ISRO chairman

12 Aug 2023
The Hindu

From space to deep sea missions, India's capabilities are growing: PM Modi

15 Aug 2023
India Today



Trai exploring auction models to 'best' allocate Satcom spectrum

15 Aug 2023
The Economic Times

Chandrayaan-3: PM Modi hails ISRO's women scientists in Independence Day speech

15 Aug 2023
Business Today



'Space on Wheels' to make students aware of India's space programmes

17 Aug 2023
Hitvada

India's boom, Russia's crunch: how money is shaping a new space race

22 Aug 2023
Reuters



Chandrayaan-3 landing: On big day, Nasa & ESA have a key role to play

23 Aug 2023
The Times of India

How NASA's Deep Space Network (DSN) helped ISRO in communicating with Chandrayaan-3

23 Aug 2023
Mint



PM for expanding BRICS, joint exploration of space

23 Aug 2023
Tribune India

Govt releases 9-yr space report card: 389 foreign sats launched, Rs 3,300 cr earned, 123% rise in budget

24 Aug 2023
The Times of India



Chandrayaan 3: Vikram Lander, Pragyan rover begin operation, updates ISRO

24 Aug 2023
Hindustan Times

ISRO takes off from shoulders of unsung giants

25 Aug 2023
The Economic Times



Amid lunar success, time to redefine space goals

25 Aug 2023
Tribune India

Geospatial AI and ML to revolutionise air quality monitoring in Indian Cities

25 Aug 2023
The Week



India can travel to Moon, Mars and Venus but, ISRO chief on what is needed to enhance space sector capabilities

27 Aug 2023
Mint

Strict budgeting, cooperation with Indian industry behind ISRO's cost-effectiveness: Former budget director of ISRO

28 Aug 2023
Moneycontrol

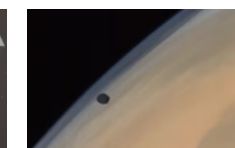


ISRO will send female-looking humanoid 'Vyommitra' into space in second phase of Gaganyaan mission

28 Aug 2023
FirstPost

B20 Summit 2023: PM Modi lauds MSMEs, private firms for contributing to the Chandrayaan-3 project, led by ISRO

28 Aug 2023
WION



Space expert shares videos of Phobos, the Martian moon. Thank you, Mangalyaan

29 Aug 2023
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A giant leap for India's small-town engineering colleges

30 Aug 2023
The Financial Express



Aditya-L1, a monumental leap in India's space exploration saga

30 Aug 2023
The Week

USA



Starlink: Why the new sovereign of low-earth orbit is bad news

6 Aug 2023
The Hindu



Viasat revenue grows as investigation continues into malfunctioning \$750 million satellite

9 Aug 2023
CNBC



NASA Unveils Artemis 2 Moon mission spacecraft at Kennedy Space Centre

9 Aug 2023
CNBC TV18



Canadian Space Tech Firm MDA Gets Deal to Build 198 Satellites for Telesat

11 Aug 2023
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NASA hopes to transition from ISS to private space stations

16 Aug 2023
Space.com



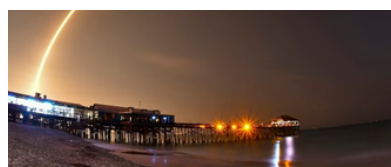
Artemis 4 astronauts will be 1st crew to use NASA's moon-orbiting Gateway in 2028

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Google May Partner Garmin To Bring Satellite Connectivity On Android Smartphones

28 Aug 2023
ABP Live

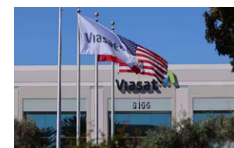


Nasa sends SpaceX Crew-7 to International Space Station for exploration

28 Aug 2023
Business Standard

US space startups' latest struggles marked by shake-ups

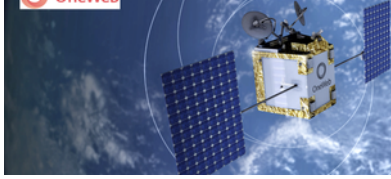
16 Aug 2023
ET Telecom



Billion-dollar satellite, Viasat, risks disrupting space insurance market

30 Aug 2023
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CHINA



Forrester's Digest: China wanted to buy OneWeb + is Viasat is going to alter Inmarsat's LEO plans??

31 July 2023
SatNews



Export challenges delay Indian equipment meant for Chinese space station

7 Aug 2023
WION



China launches Fengyun-3F meteorological satellite to orbit

8 Aug 2023
Space.com



China sends world's first high-orbit SAR satellite into orbit, boosting disaster monitoring

13 Aug 2023
Global Times



China launches Gaofen Earth-observation satellite (video)

23 Aug 2023
Space.com



China's great race to build a SpaceX competitor

Nikkei Asia
August 2, 2023



China's hypersonic tungsten rod experiment challenges the US 'rods from God' space weapon concept

South China Morning Post
August 7, 2023



Hong Kong's first-ever and one of the world's largest satellite manufacturing facilities to deliver first satellite by 2024; city to keep up with country's robust advancement in space

Global Times
August 7, 2023

RUSSIA



Musk prevented Ukraine from using Starlink for military strike on Russian ships: Report

31 July 2023
Republic World



Russia's moon failure dent to its space partnership with China

22 Aug 2023
Mint



Russian space agency chief blames decades of inactivity for Luna-25 lander's crash on the moon

22 Aug 2023
The Hindu



Russia plays down Luna-25 crash on Moon, says space programme will continue

30 Aug 2023
India Today

EUROPE



Virgin Galactic is set to fly first private tourists to space

10 Aug 2023
Moneycontrol



Revolutionising Space Travel: Nuclear Fusion Rocket Aims To Speed Up Space Exploration

14 Aug 2023
India Times



Is it Time to Consider Spacetech Stocks?

22 Aug 2023
Mint

Other Nations



German SpaceX customer OHB to delist as KKR takes minority stake

8 Aug 2023
ET Telecom



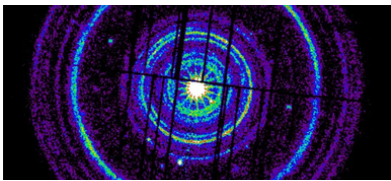
New Zealand Announces 24-30 GHz Spectrum Plan for Mobile and Satellite Services

11 Aug 2023
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Japanese startup aims to launch 1st orbital rocket in 2025

16 Aug 2023
Space.com



Ireland's First Satellite Will Shake Up Hunt For Cosmic Gamma Ray Bursts

16 Aug 2023
Forbes



North Korea's space launch program and long-range missile projects: Timeline

22 Aug 2023
The Times of India



How satellites are helping farmers adapt to global warming

22 Aug 2023
The Economic Times



Saudi, Singapore & South Korea eye space tech tie-ups

25 Aug 2023
The Times of India

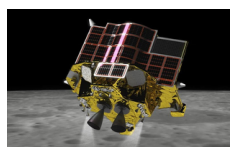


North Korea says latest spy satellite launch failed, but will try again

24 Aug 2023
Business Today

Japan's SLIM spacecraft joins lunar landing rush

26 Aug 2023
Space.com



Satellite, Space AI and Robotics: The Future

28 Aug 2023
Analytics Insight

Job Openings from our Members



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



<https://canopus-space.in/career/>



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



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



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

IN-SPACE Consultation Paper on EO Data from Indian Satellites Missions

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

Last Date to Submit Comments: 31 Aug 2023

TRAI Consultation Paper on Encouraging Innovative Technologies, Services, Use Cases, and Business Models through Regulatory Sandbox in Digital Communication Sector

<https://www.trai.gov.in/consultation-paper-encouraging-innovative-technologies-services-use-cases-and-business-models>

Last Date to Submit Counter-Comments: 16 Aug 2023

TRAI releases Supplementary Consultation Paper on Data Communication Services Between Aircraft and Ground Stations Provide by Organizations Other Than Airports Authority of India

<https://www.trai.gov.in/notifications/press-release/trai-releases-supplementary-consultation-paper-data-communication>

Last Date to Submit Comments: 17 Aug 2023

Last Date to Submit Counter-Comments: 24 Aug 2023

TRAI releases recommendations on "Leveraging Artificial Intelligence and Big Data in Telecommunication Sector"

<https://www.trai.gov.in/notifications/press-release/trai-releases-recommendations-leveraging-artificial-intelligence-and-big>

TRAI Consultation Paper on Assignment of Spectrum for Space-based Communication Services

<https://www.trai.gov.in/consultation-paper-assignment-spectrum-space-based-communication-services>

Recommendations & Policy Directives of Startup Policy Communique` by Startup20 Engagement Group of G20

<https://www.startup20india2023.org/>

Think Tank Recommendations on Corporate Governance for Indian Start-ups by Startup20 Engagement Group of G20

<https://www.startup20india2023.org/>

Department of Space releases Indian Space Policy 2023

<https://www.isro.gov.in/IndiaSpacePolicy.html>

INSPACE-ISRO Announcement of Opportunity for hosting payloads on POEM

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

Last Date to Submit: 25 Aug 2023

ISRO-INSPACE Expression of Interest for Technology Transfer of Small Satellite Launch Vehicle (SSLV) to Indian Industries

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

Last Date to Submit: 16 Aug 2023

Office of Principal Scientific Adviser to the Government of India released the Draft National Deep Tech Startup Policy (NDTSP) 2023

<https://psa.gov.in/CMS/web/sites/default/files/process/NDTSP.pdf>

Read here the main features of the policy: https://ispaspace-my.sharepoint.com/:w:/g/personal/abhinav_ispa_space/EV0dIM9rfIpHsHWkxr4UdLYB_smOjvvOjPJw1GmS4BHHDA?e=K8h1lz

Last Date to Submit Comments: 15 Sept 2023

Union Cabinet approved the National Research Foundation Bill 2023

<https://dst.gov.in/lok-sabha-passes-anusandhan-national-research-foundation-bill-2023-moved-union-minister-dr-jitendra>

Upcoming Events

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New Delhi, India

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www.ispaevents.space/indian-space-conclave-2023

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