

In Association With



Confederation of Indian Industry



8th BENGALURU SPACE EXPO 2024

18-20 SEPTEMBER 2024 | BIEC, BENGALURU, KARNATAKA, INDIA

www.bsxindia.com



DR. S. SOMANATH

Secretary, Department of Space and
Chairman, Space Commission,
Government of India

“

TIMES HAVE CHANGED. WE ARE CAPABLE OF
BUILDING THE BEST EQUIPMENT, THE BEST
DEVICES, AND THE BEST ROCKETS IN INDIA.”

GLOBAL SPACE MARKET

Historically, human space exploration has focused on Low Earth orbit and unmanned missions. However, with increased private funding, technological advancements, and public sector interest, there's a renewed push to explore beyond. Declining launch costs and rising public interest are propelling this industry to new heights, offering a galaxy of opportunities for investors.

TRILLION-DOLLAR OPPORTUNITY, AWAITING

Space Exploration Propelling a \$1.8 Trillion
Global Economic Surge by 2035, With
Growth Surpassing 9% Annually.

INDIAN SPACE MARKET

The Indian Space Sector, valued at \$9.6 billion in 2020, contributes 2-3% to the global space economy. Projected to reach \$13 billion by 2025, India aims to capture close to 10% of the global economy by 2030. Recognizing the pivotal role of the private sector, the Prime Minister emphasizes its importance in expanding India's share in the global space industry. Currently, over 400 industrial firms, including conglomerates and SMEs, collaborate with ISRO to develop subsystems for space launch and ground infrastructure. India's participation in the Artemis Accords and agreements with four countries for satellite launches between 2021 and 2023, signify its growing international collaboration. NSIL, mandated as the exclusive public sector aggregator for space assets/services, plans to invest \$1.2 billion in the next five years to boost industry involvement. The space startup ecosystem has flourished, with 189 startups in 2023, receiving \$124.7 million in funding. With favorable policy changes, including the Space Policy 2023 and upcoming legislation, India is poised to emerge as a global leader in the space sector, offering new avenues for investments and technological advancements.

With a push from Prime Minister Narendra Modi, India has privatised space launches and is targeting a five-fold increase in its share of the global launch market, which some expect to be worth \$47.3 billion by 2032. This increased private sector participation would help to generate employment, enable modern technology absorption and make the sector self-reliant. It is expected to integrate Indian companies into global value chains. With this, companies will be able to set-up their manufacturing facilities within the country duly encouraging 'Make In India (MII)' and 'Atmanirbhar Bharat' initiatives of the Government.

As a leader in the space technology domain, we understand the importance of staying at the forefront of innovation and collaboration. The Bengaluru Space Expo 2024 serves as a premier platform for industry leaders, innovators, and enthusiasts to come together, exchange ideas, and explore the latest advancements in space technology.

SPACE SECTOR STATISTICS

3.6%

World space related companies in India

424

Foreign satellites launched for 34 countries

\$279 Mn+

Revenue earned by India from launch of foreign satellites by ISRO

Ranked 5th

With over 400 private space companies, India ranks fifth globally in no. of space companies

6th largest space agency

ISRO, is the 6th largest space agency in the world and holds an exceptional success rate

Myriad agreements

ISRO has signed six agreements with four countries for launching foreign satellites between 2021 and 2023. From a commercial standpoint, these launches hold a potential of \$ 141 mn. to be earned in revenues

SNAPSHOT

The Indian space sector is recognised for building cost-effective satellites with launch of the Mars probes successfully at first attempt and taking hundreds of foreign satellites to space. India constitutes 2-3% of the global space economy and is expected to enhance its share to more than 10% by 2030.

SATELLITE MANUFACTURING: There are collaborations between government agencies and private parties for manufacturing parts of satellites and their launchers; for instance, PSLV-C53 is the first official public-private collaboration for a space launcher in India.

SATELLITE LAUNCHES: The Indian Space Program under ISRO has achieved many considerable feats and has established India's name in the global picture as a provider of reliable and cost-effective space solutions.

- 1st nation to reach Martian orbit in its first attempt, with Mars Orbiter Mission or the Mangalyaan 2013
- Launching the Gaganyaan, India's Human Spaceflight Mission aiming to launch India's first crewed flight into space by 2024
- Research satellites, Navigation satellites (NavIC) and even student satellites, promoted by ISRO

SATELLITE LAUNCH SERVICES: ISRO provides launch facilities for private and foreign organisations. India has launched 381 foreign satellites for 34 countries on a commercial basis between 1999 and 2022, with 36 OneWeb Gen 1 communication satellites launched in one go on 23rd October 2022.

SATELLITE APPLICATIONS: i.e. remote sensing, space-based navigation, earth observation, disaster management, testing, data analysis and others. Privatisation will be the key to boost India's presence and capabilities in space.

BSX OVERVIEW

India's space sector has made tremendous growth over the decade. Our advances in space programmes have been highly remarkable, with vigorous and determined efforts of ISRO. Taking the vision of the Government of India in enhancing private sector participation in the space sector, the Confederation of Indian Industry (CII), in association with the Indian Space Research Organization (ISRO), has been organising the Bengaluru Space Expo 2024 (BSX), a Biennial International Exhibition and Conference, since 2008.

The 8th Edition of BSX 2024, will be organised in association with ISRO, Indian National Space Promotion and Authorisation Centre (IN-SPACe) and NewSpace India Limited (NSIL) is scheduled from September 2024 at BIEC in Bengaluru, India.

The Bengaluru Space Expo 2024 serves as a premier platform for industry leaders, innovators, and enthusiasts to come together, exchange ideas, and explore the latest advancements in space technology. BSX 2024 promises an exciting lineup of exhibits, workshops, and networking opportunities, showcasing the cutting-edge technologies and capabilities driving the future of space exploration.

Purpose

To showcase advancements in space technology and promote collaboration within the industry.

KEY FOCUS AREAS



Launch Vehicles



Satellites



Remote Sensing & Satcom



Ground Stations as a Service



Export Readiness



In-Space Manufacturing



Space Based Solar Power



Innovation & Research

EVENT HIGHLIGHTS



8th Edition/Biennial



3 Day Exhibition and 2 Day Conference



ISRO Pavilion



250+ Delegates



Visit of Officials from Various ISRO Centres Across India



New Product Launches



Latest Trends, Technologies, Equipment and Products on Space and Satellite



250+ Space Companies



10+ Country Pavilions



10,000+ Business Visitors



Visit by Department of Space, GOI Officials



Innovation and Start-Up Pavilion

INTERNATIONAL CONFERENCE

As with previous editions, a two-day international conference will run alongside the exhibition. This conference will feature talks and insights from experts and distinguished speakers from both India and abroad in the field of space.

EXHIBITOR CLUSTER

-  Allied Industry Products Components Manufacturers
-  Allied Services
-  Banks & Finance
-  Communication & Telecom Systems Related to Space
-  DTH Providers
-  Educational Institutes
-  Electronics & Optics
-  Government Department in Space Technology
-  GPS Navigation
-  IT & Automation for Space
-  Launching Facilities Providers
-  Manufacturers of Space Equipment, Components & Accessories
-  Research Organisations
-  Propulsion Systems & Technologies
-  Satellite Manufacturers
-  Satellite Parts & Components
-  Satellite Technology Areas
-  Security Systems Related to Space
-  SMEs
-  Space Agencies
-  Space Applications
-  Space Ground Support System
-  Space Research & Development
-  Surveillance Equipment
-  Satellite

VISITOR CLUSTER

-  Astronauts
-  Association & Institutions
-  Buyers & Sourcing Personnel from Space & Research Organisations
-  Consultants
-  Dealers & Suppliers
-  Decision Maker from Private Sector
-  Educational Institutes
-  Energy & Exploration
-  Entrepreneurs
-  Geological Department Officials
-  Government Department
-  ISRO Centres
-  Managers & Executives from Related Industries
-  Manufacturers
-  Marketing Personnel
-  Media Houses
-  Meteorological Departments
-  Oceanographers
-  Overseas Delegations
-  Private Sector/Industries



Indian Space Research Organisation (ISRO) is the national space agency under the Department of Space, Government of India. The prime objective of ISRO is to develop space technology and its application to accelerate national development. ISRO has put two major national satellite systems, namely INSAT and IRS, in place. The INSAT system provides a robust infrastructure in space for telecom, broadcasting and meteorological observations. IRS system provides high-quality data from space to support natural resources management and their development tasks. ISRO's developments in launch vehicles such as PSLV and GSLV provide reliable space transportation services for satellites in various orbits. ISRO promotes extensive international cooperation and industrial spin offs from its space activities, having successfully launched its Mars and Lunar crafts (Mangalyaan and Chandrayaan series).

www.isro.gov.in



Indian Space Programme primarily focuses on deriving socio-economic benefits from space technology and its applications for national development. Over past five decades, having successfully realised 100 plus satellite missions, over 70 launch vehicle missions, missions to Moon and Mars, and having embarked on the human space flight mission (Gaganyaan); India is in the league of elite space-faring nations. Space activities in India, from the very inception, had the participation of Indian industry, with over 500 of them currently working with Indian Space Research Organisation (ISRO). To meet the ever-increasing demands of the Indian space programme and to commercially exploit the emerging global space market, Indian Industries need to scale up their manufacturing and production base. In order to commercially exploit the products and services emanating from the Indian Space Programme, the NewSpace India Limited (NSIL) has been incorporated in March 2019, as a wholly-owned Government of India Company, under the administrative control of Department of Space (DOS). NSIL currently has an authorised share capital of 100 crore and paid-up capital of 10 crore. NSIL is the commercial arm of Indian Space Research Organisation (ISRO).

www.nsilindia.co.in



Indian National Space Promotion and Authorisation Center (IN-SPACe), created in 2020 is an independent nodal agency under Department of Space (DOS) for allowing space activities and usage of DOS owned facilities by NGPEs as well as to prioritise the launch manifest. IN-SPACe is to be established as a single window nodal agency.

www.inspace.gov.in

BSX 2022 GLIMPSES





Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society, through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, with around 9,000 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 300,000 enterprises from 286 national and regional sectoral industry bodies.

For more than 125 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes. Partnerships with civil society organizations carry forward corporate initiatives for integrated and inclusive development across diverse domains including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

As India strategizes for the next 25 years to India@100, Indian industry must scale the competitiveness ladder to drive growth. It must also internalize the tenets of sustainability and climate action and accelerate its globalisation journey for leadership in a changing world. The role played by Indian industry will be central to the country's progress and success as a nation. CII, with the Theme for 2023-24 as 'Towards a Competitive and Sustainable India@100: Growth, Livelihood, Globalisation, Building Trust' has prioritized 6 action themes that will catalyze the journey of the country towards the vision of India@100.

With 65 offices, including 10 Centres of Excellence, in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with 350 counterpart organizations in 133 countries, CII serves as a reference point for Indian industry and the international business community.

Contact Details

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