



Organised by



Confederation of Indian Industry



In association with



Indian Space Research Organisation



Indian National Space Promotion & Authorization Center



NewSpace India Ltd.
(A Govt. of India Company under Department of Space)

NURTURING NEW SPACE IN INDIA



7th BENGALURU SPACE EXPO 2022

5-7, SEPTEMBER, 2022 | BENGALURU, KARNATAKA | INDIA

www.bsxindia.com



DR. S. SOMANATH

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

“ ENABLE INDUSTRY TO MEET INDIA'S COMMERCIAL SPACE
REQUIREMENT WITH ISRO TECHNOLOGY & HAND HOLDING. ”

THE NEXT TRILLION-DOLLAR INDUSTRY

Till date, human space exploration has largely centred on manned low-Earth orbit missions and unmanned scientific exploration. Now, high levels of private funding, advances in technology and growing public-sector interest is renewing the call to look toward the stars. Also helping propel the industry to new levels is declining launch costs, advances in technology and rising public-sector interest. This in turn spells a constellation of potential opportunities for investors.

THE GLOBAL SPACE ECONOMY

Space exploration is all set to be the next trillion-dollar industry. Estimates predict that the global space industry could generate revenue of more than \$1 trillion or more in 2040, up from \$350 billion, currently*.

The revenue generated by the global space industry may increase to more than \$1 trillion by 2040*.

**Morgan Stanley Report*

GROWING PUBLIC-SECTOR INTEREST

In USA, the U.S. Space Command, U.S. Defence Department, as well as the aerospace and defence industries are enabling focus and accelerating investment in innovative technologies and capabilities. The relationship between private enterprise and the U.S. government in the space domain is also strengthening. Elsewhere also, the winds of change are in motion expanding the final frontier of space.

SPACE START UPS AT BSX 2022

The Indian space-tech sector is a burgeoning industry in the making. Ever since the Indian central government took steps to privatise the space sector and bring more companies to the fold, a number of players have looked to make a big splash. The total number of space startups in the country has now crossed 100. The numbers showcasing this growth is promising from an investor standpoint and lays the groundwork for larger investments to finally come in 2022 and later on. This year, many of the startups are promising the launch of their first space mission. Some of them are also building platforms to democratise access to space technologies for companies in India and beyond.

TO INFINITY AND BEYOND

Beyond opportunities generated by satellite broadband Internet, the new frontiers in rocketry offer tantalizing possibilities. Perhaps private space travel could become commercially available. Mining equipment could be sent to asteroids to extract minerals, with the recent breakthroughs in rocketry. The future is infinite.

UNLOCKING INDIA'S POTENTIAL IN SPACE SECTOR

The Indian Space programme is envisioned to use space technology for national development. The objective is to establish operational space services with self-reliance in the thrust areas of satellite communication, satellite-based resource survey/management, satellite navigation, satellite meteorological applications and other emerging areas and carry out sustained research and development in these areas.

Across five decades, ISRO has been successful in the development of indigenous end-to-end capability in space technology and space activities. This has also led to the growth in Indian industries, with more than 500 MSMEs, PSUs and large private industries contributing significantly to the Indian space programme and generating employment for around 45,000 people. Industries have also evolved to exporting indigenous technologies.

To enable enhanced participation of Indian Industries in taking up high-tech space related activities, the Government of India has incorporated NewSpace India Limited (NSIL), a wholly owned Central Public Sector Enterprise (CPSE), under the administrative control of Department of Space (DOS).



ENTER INDIA'S SPACE SECTOR AS A PRIVATE ENTITY

Department of Space (DOS) desires to encourage the participation of private companies in space activities, to enhance the diffusion of space technology and boost space economy in India. ISRO shall complement DOS in opening up the space sector to private industries. NSIL is taking ownership from DOS for operational launch vehicles, commercialized launches, satellites and services, to enhance utilization and maximize benefits from space assets.

PREMIER EVENT FOR GLOBAL SPACE PROFESSIONALS

The 7th Bengaluru Space Expo in 2022 (BSX 2022) will consistently represent all sectors of the space community. Bringing all these groups together in one place will provide a unique opportunity to examine space issues from multiple perspectives, to promote dialogue, focus attention on critical space issues. In short, discuss, address and plan for the future of space.

CONNECT, ENGAGE AND PROSPER

Exhibit, attend, network, engage with and make vital and profitable connections with influential participants in a convenient and extraordinary venue. Gain from prominent speakers and forward-thinking conferences. Get direct access to the galaxy of ISRO- capacity building in space domain, know about opportunities for Non-Government-Private-Entities (NGPEs) offering challenges in new tech domains and immerse yourself in new space technologies, capabilities and endeavours. Only at BSX 2022.

INTERNATIONAL CONFERENCE

As in the previous editions, a three-day international conference with the theme **“NURTURING NEW SPACE IN INDIA”** will be held concurrently with the exhibition. The conference will be addressed by experts and eminent speakers from India and overseas from the Space Arena.

EXHIBITOR UNIVERSE

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



PRODUCT UNIVERSE

- Amplifiers • Antennas • Automation, and Control Technologies • Connectors • Data acquisition and Management Deployment Mechanisms
- EGSE & MGSE • Electronics and Optics • Filters • GIS Service Providers • GIS Software Developers • Insurance and Management of Project & Test
- Launch Vehicle Subsystems • Mobile Multi Media Services • Mechanical Sub Systems • Mechanisms and Robotics • Multiplexures and Demultiplexurers • Payload Sub Systems • Platform Sub Systems • Precision Components • Printed Circuits for Electronic Equipment • Propellants, Propulsion and Propulsion Technologies • Radars-Tracking Radars, Wind Profile Radars and Weather Radars • RF Cables and Components • Satellite Manufacturers • Semi Rigid Cables • Solar Panels and Batteries • Space Vehicle Engines • Structures • System Integrators • Teleport Services Providers
- Thermal Control Space Applications • Transmitters & Receivers • Transponders • Valves • Waveguides • All other Space Related Products

VISITOR UNIVERSE

- Astronauts • Associations & institutions • Buyers & Sourcing Personnel from Space & Research Organisations • Consultants • Dealers & Suppliers
- Decision-Makers from Private Sector • Educational Institutions Energy and Exploitation • Entrepreneurs • Geological Department Officials • Government Departments • Government Officials • ISRO Centres • Managers & Executives from related Industries • Manufacturers • Marketing Personnel • Media Houses • Meteorological Departments • Oceanographers • Overseas Delegates • Private Sector / Industry • Research Analysts • Satellite Manufacturers
- Scientists • Security Agencies • Space Agencies • Surveyors • Technical Experts • Telecommunication and Broadcasting • Venture Capital Institutions

*This list is illustrative

ISRO

Indian Space Research Organisation (ISRO) is the national space agency under the Department of Space, Govt. 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 Chandrayan series).

www.isro.gov.in

NSIL

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 realized 100 plus satellite missions, over 70 launch vehicle missions, mission 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 authorized 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

IN-SPACe

Indian National Space Promotion and Authorization 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.isro.gov.in

CII

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 over 9000 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 300,000 enterprises from 294 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 marches towards its 75th year of Independence in 2022, CII, with the Theme for 2021-22 as Building India for a New World: Competitiveness, Growth, Sustainability, Technology, rededicates itself to meeting the aspirations of citizens for a morally, economically and technologically advanced country in partnership with the Government, Industry and all stakeholders. With 62 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 394 counterpart organizations in 133 countries, CII serves as a reference point for Indian industry and the international business community.

cii.in

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