

SOCIAL
alpha
PRESENTS

SPIN
SPACETECH INNOVATION NETWORK

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The SpaceTech Innovation Network (SpIN), an initiative of Social Alpha and Indian Space Research Organisation (ISRO) is India's first lab-to-market platform for SpaceTech entrepreneurs and start-ups.

The use of space science and technology has the potential to benefit diverse sectors, such as aviation, maritime and land transportation, urbanisation, mapping and surveying, human health, disaster management, food security and sustainable agriculture, environmental monitoring, and natural resource management.

The SpIN platform will offer a focused support ecosystem that will ensure access to long-term patient capital, testing, and validation infrastructure, building strong sustainable business models that will lead to new market creation for SpaceTech entrepreneurship in India.

SpIN OBJECTIVES

- To promote innovation and entrepreneurship in the SpaceTech and deep science landscape at the grassroots level.
- Aggregate and accelerate access to the network of product development and validation facilities for SpaceTech and allied sectors.
- Create a network of mentors and subject matter experts and share learnings.
- Help create a de-risked pipeline of innovations ready for support and deployment.
- To activate innovation challenges and create go-to-market programs to address commercial and cross sectoral applications of SpaceTech and allied technologies.
- To build an open network of mission-aligned ecosystem stakeholders to help promote and build the SpaceTech innovation ecosystem.

INNOVATION FOCUS AREAS



Geospatial Technologies and Downstream Applications

Downstream applications are the commercial anchor of the space sector, and accounts for the largest share of the space economy globally. Innovations that enable wider adoption of such technologies across several sectors, including in communication, navigation etc will be a key focus area of SpIN.



Enabling Technologies for Space & Mobility

Emerging technologies that deal with design, construction, operation and application of computer systems for their control, sensory feedback, information processing as well as algorithms could play an increasingly important role in realising the potential of space technology and its applications. Technological advances in electric propulsion and control systems are facilitating the development and operation of new air vehicles potentially capable of safe, reliable, and with lower operating and maintenance costs than conventional aerial mobility.



Aerospace Materials, Avionics & Sensors

Next generation electronic systems, components and a combination of innovative sensor technologies have given rise to Industrial Internet of Things (IIoT) which offer wide applications to provide enhanced device connectivity. Advanced materials development and applications will also be a key focus, including novel processing, fabrication, characterisation, and testing approaches.

TECHNOLOGY STACK

Remote Sensing Geographic Information Systems (GIS)

Global Positioning Systems (GPS)

Web Mapping Technology

Data Science

Artificial Intelligence/Robotics

Augmented/Virtual Reality

Autonomy & Control

Micro/Nano Electromechanical Systems

Sensor Technologies

3D Sensing & Imaging

Advanced Material Processing & Fabrication

PLATFORM OFFERINGS

Go-to-market Support

R&D Support

Syndicated Capital Pools

Market Access Programmes

Workshops & Capacity Building

Access to Innovation Pipeline

Co-Founder Clinics

Mentorship Networks

International Collaborations

Curated Business Use Cases

WHO CAN BE PART OF THE PLATFORM?

Start-ups

Entrepreneurs

Academic Institutes

Venture Capitalists

Incubators

Corporates

Multilateral Organisations

Global Agencies

MSME's

SpIN PLATFORM VISION AND ROADMAP

