



Mission SCOT

Source: PIB

The Prime Minister of India lauded **Indian space startup Digantara** for the success of **Mission SCOT (Space Camera for Object Tracking)**.

- **Mission SCOT:** It is the **world's first commercial [Space Situational Awareness \(SSA\)](#) satellite**, launched aboard [SpaceX's Transporter-12 mission](#).
 - SSA is the tracking and characterization of space objects and their orbits.
 - Mission SCOT tracks [Resident Space Objects \(RSOs\)](#) as small as 5 cm in [Low Earth Orbit \(LEO\)](#).
 - It is backed by Aditya Birla Ventures and the [Small Industries Development Bank of India \(SIDBI\)](#).
- **Transporter-12 Mission:** It is part of SpaceX's rideshare program, aims to provide **cost-effective access to space** for multiple customers in a single launch.
- **India's Efforts in SSA:** [Indian Space Research Organisation \(ISRO\)](#) conducts proximity analyses and [Collision Avoidance Manoeuvres \(CAM\)](#) to prevent satellite collisions.
 - India has a Multi Object Tracking Radar at [Sriharikota range](#), but it has a limited range.
 - [ISRO System for Safe and Sustainable Operations Management \(IS4OM\)](#), provides the annual [Indian Space Situational Assessment Report \(ISSAR\)](#) for space environment insights.
- **NETRA Project:** Under the [Network for Space Objects Tracking and Analysis \(NETRA\)](#), ISRO is establishing a **Space Surveillance and Tracking (SST) network** with advanced radars and optical telescopes to enhance threat analysis and protect space assets.

Read more: [NETRA Project & Space Junk](#)

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