

Mission Drishti

Prelims: Current events of national and international importance | Science & Technology

Why in news?

Space-tech startup GalaxEye has announced that it is planning to launch its maiden 'Mission Drishti' in 2026.

- **Mission Drishti** - The world's 1st multi-sensor Earth observation (EO) satellite.
- It is India's largest privately built satellite and also the highest-resolution satellite developed in the country.
- **Aim** - To achieve near real-time Earth observation for global applications.
- **Launched in** - 2026, this constellation program comprising **8-12 satellites** to be launched successively **until 2029**.
- **Planned by** - Bengaluru based space startup - GalaxEye

*This company notably is the 1st company in India to develop a synthetic aperture radar (SAR) payload **privately**.*

Key features of mission

- **Combination of sensors** - The satellite will combine multiple sensing technologies on a single platform.
- The satellite will feature GalaxEye's proprietary "**SyncFused Opto-SAR**" imaging, which synchronizes both high-resolution optical payloads and synthetic aperture radar (SAR) sensors.
- **High-resolution imagery** - The satellite, weighing 160 kg and offering **1.5 metre resolution**, offering high-precision geospatial insights.
- **All-weather & all-time observation** - The combination of sensors will enabling unprecedented earth observation data available through any weather, any time of the day.
- **High endurance** - The satellite has undergone **comprehensive**

structural testing at ISRO's U.R Rao Satellite Centre (URSC), proving its capability to endure the harsh conditions of space, including extreme temperatures, vibrations, and vacuum.

- **Range of applications** - The satellite will enable governments, defense agencies, and industries to perform advanced geospatial analysis across a wide range of applications, including:
 - Border surveillance, disaster management, defence, utilities and infrastructure monitoring, agriculture as well as financial and insurance assessment.
- **Significance** - This mission places India firmly on the global space map and creates a system that ***turns space technology into intelligence*** that businesses, governments, and communities can rely on.

References

1. [The Hindu | Mission Drishti](#)
2. [Business Standard | Mission Drishti](#)

