

# **ISRO's SpaDeX Mission**

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## **ISRO's SpaDeX Mission: A Milestone in Space Docking**

#### Context

ISRO successfully **undocked** the two satellites of the **SpaDeX mission**, making India the **fourth country** after the U.S., Russia, and China to achieve **rendezvous**, **docking**, **and undocking** in space.

#### About SpaDeX

• Technology demonstration mission for autonomous docking and undocking.

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• Crucial for India's space station, Gaganyaan, and deep-space missions.

#### **Satellites Involved**

- SDX-01 (Chaser): Performs docking.
- SDX-02 (Target): Facilitates docking.

#### **Launch Details**

- Date: December 30, 2024 | Rocket: PSLV-C60
- Orbit: 460 km, 45-degree inclination

### **Key Milestones**

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- Docking: January 16, 2025
- Undocking: March 14, 2025

Significance

- Strengthens India's human spaceflight & space station programs.
- Enhances deep-space exploration & in-orbit servicing.
- Positions India among leaders in space docking technology.