



NavIC

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Why in News

- The **Indian Space Research Organisation (ISRO)** and its commercial arm Antrix Corporation Ltd. are set to **commercialize India's regional navigation satellite system - Navigation in Indian Constellation (NavIC)**.
- **Potential Uses:**
 - Terrestrial, aerial and marine navigation;
 - Disaster management;
 - Vehicle tracking and fleet management (especially for mining and transportation sector);
 - Integration with mobile phones;
 - Precise timing (as for ATMs and power grids);
 - Mapping and geodetic data capture.

Navigation in Indian Constellation

- Navigation in Indian Constellation (NavIC) is an **Indian Regional Navigation Satellite System (IRNSS)**, developed by the Indian Space Research Organization (ISRO).
- IRNSS consists of eight satellites, three satellites in geostationary orbit and five satellites in **geosynchronous orbit**.
- The main objective is to provide **reliable position, navigation and timing services** over India and its neighbourhood.

It works just like the established and popular U.S. Global Positioning System (GPS) but within a 1,500-km radius over the sub-continent.
- It has been **certified by the 3rd Generation Partnership Project (3GPP)**, a global body for coordinating mobile telephony standards.

Source: TH