



NavIC

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NAVIGATION WITH INDIAN CONSTELLATION (NavIC)

Navigation with Indian Constellation, also known as NavIC, is a stand-alone satellite navigation system, which is similar to GPS.

+ DEVELOPED BY

- Indian Space Research Organisation (ISRO)

+ NUMBER AND POSITIONING OF SATELLITES

- 8 (only 7 active): 3 in geostationary and 4 in geosynchronous orbits

+ PREVIOUSLY KNOWN AS

- Indian Regional Navigation Satellite System (IRNSS)

NavIC is recognised by IMO as a part of World-Wide Radio Navigation System (WWRNS) for operation in the Indian Ocean Region.

+ APPLICATIONS

- Navigation - Terrestrial, aerial and marine
- Tracking and Mapping - Vehicle and fleet management
- Location Based - Precise timing for ATMs and power grids
- Resource Monitoring - Surveying and geodesy, scientific research
- Safety-of-life alert dissemination
- Time dissemination and synchronization
- Integration with mobile phones

+ SIGNIFICANCE

- Real time information for civilian as well as strategic users
- India's reduced dependence on other countries
- Scientific & technological advancement
- Regional integration and India's diplomatic goodwill gesture

+ ISSUES

- Constellation satellites exceeding their operational lifespan
- Mobile phones lacking compatibility with NavIC
- Limited coverage of NavIC (extends only 1,500 km beyond India)

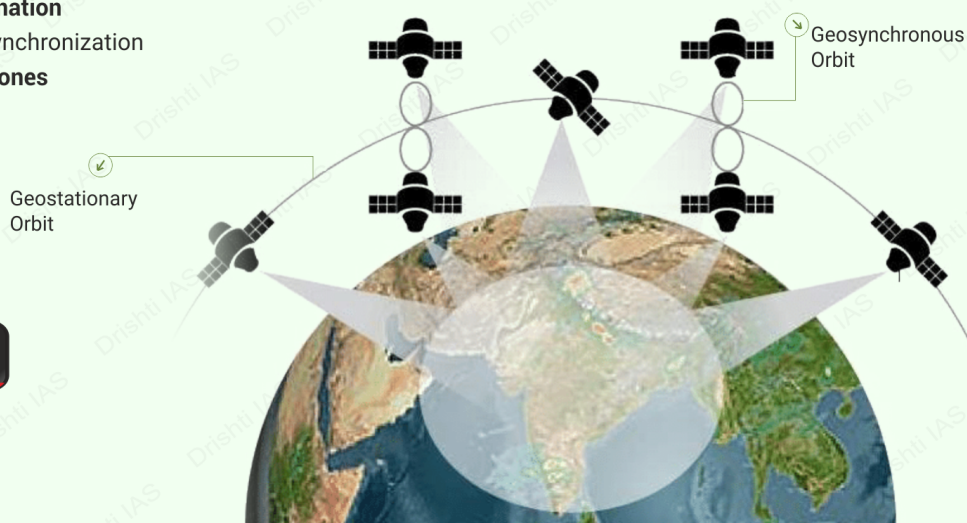
+ OTHER NAVIGATION SYSTEMS

Global Systems

- GPS (US), GLONASS (Russia), Galileo (European Union) and BeiDou (China)

Regional Systems

- Quasi-Zenith Satellite System (QZSS) from Japan



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