

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

(ISRO) 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
- (y) 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)

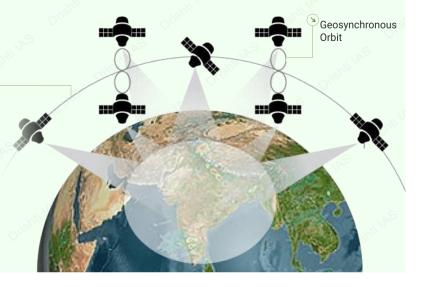
+ OTHER NAVIGATION SYSTEMS

Global Systems

(Surple of the control of the contro

Regional Systems

Quasi-Zenith Satellite System (QZSS) from Japan



STATE

Geostationary



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