

India gets homegrown satellite navigation system

April 28 2016



The seventh satellite to make up the Indian Regional Navigation Satellite System (IRNSS) was launched into space via a rocket from Sriharikota spaceport in southwestern India

India on Thursday took the final step towards completing its own satellite navigation system, a development heralded by the prime minister as making the nation self-reliant in the field of space-based positioning.

The seventh [satellite](#) to make up the Indian Regional Navigation Satellite System (IRNSS) was launched into space via a rocket from Sriharikota spaceport in southwestern India at 12:50 pm IST (0720 GMT).

However, unlike the widely used United States' Global Positioning System (GPS) or Russia's GLONASS, the Indian system will provide positioning information only in India and 1,500 square kilometres (580 square miles) around its periphery.

"Until now we were dependent on their systems, now we are self-reliant," Prime Minister Narendra Modi said in a televised congratulatory message to scientists at the Indian Space Research Organisation (ISRO).

"With this successful launch, we will determine our own paths powered by our technology. This is a great gift to our people from the scientists," he said.

"Our efforts will help not only India but we can help fellow SAARC (South Asian Association for Regional Cooperation) nations as well."

The system, which will be fully operational in a month's time, offers applications for marine and air [navigation](#) and can be integrated into mobile phones for use by hikers or fishermen, for example.

Over the next six months, all the IRNSS satellites will be stabilised in their final orbital positions, ISRO spokesman Deviprasad Karnik said.

A ground control centre in the southern city of Bangalore and tracking stations across the country will monitor the system round the clock.

ISRO scientists have been riding high since an Indian spacecraft successfully reached Mars in 2014 on a shoe-string budget, winning

Asia's race to the Red Planet and sparking an outpouring of national pride.

The eight countries that make up SAARC are Afghanistan, Bangladesh, Bhutan, India, Nepal, the Maldives, Pakistan and Sri Lanka.

China and the European Union are both developing global [satellite navigation](#) systems.

© 2016 AFP

Citation: India gets homegrown satellite navigation system (2016, April 28) retrieved 19 April 2024 from <https://phys.org/news/2016-04-india-homegrown-satellite.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.