



Chhattisgarh Tie-Up with ISRO for Space-Driven Development

Why in News?

The **Chhattisgarh government** has partnered with the [Indian Space Research Organisation \(ISRO\)](#) to implement **advanced space technology** across key sectors to harness space technology for **governance, agriculture, environmental management, and disaster preparedness**.

Key Points

- The **integration of space technology** will improve climate adaptation strategies, and bridge the gap between scientific advancements and real-world implementation.
 - **Agriculture:** Agriculture will become more **productive** through [precision farming](#), **crop monitoring**, and [climate-adaptive strategies](#).
 - **Soil Health Assessment:** Soil health assessment will help farmers enhance **agricultural productivity** by enabling the precise use of soil data.
 - **Water Resource Mapping:** Water resource mapping will support the **sustainable management of rivers** and [groundwater](#) by providing accurate data on water availability. This will help in efficient planning and conservation efforts.
 - **Disaster Preparedness:** It will be strengthened through [early warning systems](#) for **floods, droughts, and climate anomalies**, enabling timely response and risk mitigation.
 - **Smart Governance:** Smart governance will leverage **space-based solutions** to enhance **data-driven decision-making, improving efficiency** and **resource management** across various sectors.
 - **Environmental Conservation:** It will be strengthened through **real-time satellite monitoring**, enabling the prevention of deforestation and illegal land encroachments for sustainable ecosystem management.
 - **Urban Planning:** Supporting smart city development and transportation models through **spatial analytics**.

Indian Space Research Organisation (ISRO)

- **About:**
 - ISRO is the space agency of India. The organisation is involved in **science, engineering and technology** to harvest the benefits of outer space for India and mankind.
 - ISRO is a major constituent of the [Department of Space \(DOS\)](#), Government of India. The department executes the **Indian Space Programme** primarily through various Centres or units within ISRO.
 - ISRO was previously the [Indian National Committee for Space Research \(INCOSPAR\)](#), set up by the Government of India in **1962**, as envisioned by **Dr. Vikram A Sarabhai**.
 - ISRO was formed on **15th August, 1969** and superseded **INCOSPAR** with an expanded role to harness space technology.
 - **DOS** was set up and **ISRO** was brought under **DOS** in **1972**.
- **Objective:**
 - The prime objective of **ISRO/DOS** is the **development and application of space technology** for various national needs.

- ISRO has established a major space system for **communication, television broadcasting** and **meteorological services, resources monitoring and management, space-based navigation services**.
 - ISRO has developed satellite launch vehicles, [PSLV](#) and [GSLV](#), to place the satellites in the required orbits.

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