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SAR satellite Foresight-1 launched

It's 1st satellite of UAE's Earth Observation Space Programme

ABU DHABI

Bayanat, a leading provider of AI-powered geospatial solutions and a subsidiary of G42, confirmed the launch of the synthetic aperture radar (SAR) satellite Foresight-1, the first satellite of the UAE's Earth Observation Space Programme.

Hasan Al Hosani, Managing Director of Bayanat, said that Foresight-1 places the UAE in the prestigious list of 20 countries that operate SAR space assets.

He pointed out that the strategic roadmap drawn up by Bayanat and Yahsat is based on deploying a constellation of satellites with SAR technology.

HOW IT WORKS

The Foresight-1 satellite uses SAR technology, which is an active sensing system that illuminates the Earth's surface and measures the reflected signal to provide high-resolution images. Unlike traditional optical imaging satellites, SAR satellites can capture images day or night regardless of weather conditions or the reflection of sunlight.

"After the successful launch of the Foresight-1 satellite, we are now able to operate space assets prepared to cross over the Middle East region repeatedly and in record time," he said.

This technology will en-

hance the quality of geospatial solutions and services provided by Bayanat and Yahsat, in addition to enhancing capabilities in disaster management, marine monitoring, and smart mobility applications.

Emiratis constituted more than 30 per cent of the Earth Observation Space Programme.

Al Hosani said that the merger between Bayanat and Yahsat is expected to be completed before the end of this year, subject to obtaining final approvals from regulatory authorities.

He pointed out that the merger contributes to establishing Space42 as a leading Emirati company in the space sector with a global footprint, supporting the country's efforts to achieve the directions of the National Space Strategy 2030.

— WAM