

SATERA

Space-based composite
ADS-B and multilateration
system validation through
scalable simulations

Exploratory Research

July 2024-December 2026

SATERA proposes a space-based aeronautical surveillance system that utilizes small satellites in low Earth orbit to enhance air traffic safety and security in remote regions, such as oceanic routes



SATERA will design and validate a GNSS-independent air traffic control (ATC) surveillance system, establishing integrity parameters for space-based ADS-B data to improve air traffic safety and security

SATERA aims to be a key enabler in optimizing air operations, particularly for long-haul flights over oceanic and uninhabited areas, by reducing greenhouse gas emissions, increasing airspace capacity, and enhancing safety and security

SATERA aspires to strengthen European airspace sovereignty by promoting the provision of critical air traffic management (ATM) services through European companies. This initiative will enhance Europe's industrial leadership in ATC by leveraging satellite technology and accelerating the deployment of space-based ADS-B systems across the continent

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