

20th IAA SYMPOSIUM ON SPACE DEBRIS (A6)  
Interactive Presentations - 20th IAA SYMPOSIUM ON SPACE DEBRIS (IP)

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A KEY ROLE FOR BRAZIL IN INTERNATIONAL ORBITAL DEBRIS DETECTION AND  
TRACKING ESTRATEGIES.

**Abstract**

The threats posed by Space Debris have led Space Agencies around the world to work on innovative detection and cleanup solutions, as is the case with the European Space Agency (ESA). In Brazil, an emerging country in the space sector, the Pico dos Dias Observatory, in Minas Gerais, built in partnership with the Russian Space Agency (ROSCOSMOS), the Pan-Eos Telescope consisting of 1 main instrument with 75cm aperture and 4 auxiliary instruments with 25cm aperture. aperture capable of detecting Debris larger than 12 cm, providing an ever-growing database. This study aims to show how Brazil, through the present technology of detection, collection and analysis of data and through the Brazilian Space Agency (AEB), can collaborate with the scientific development of innovative solutions, aiming to increasingly reduce the risk of collisions in space.