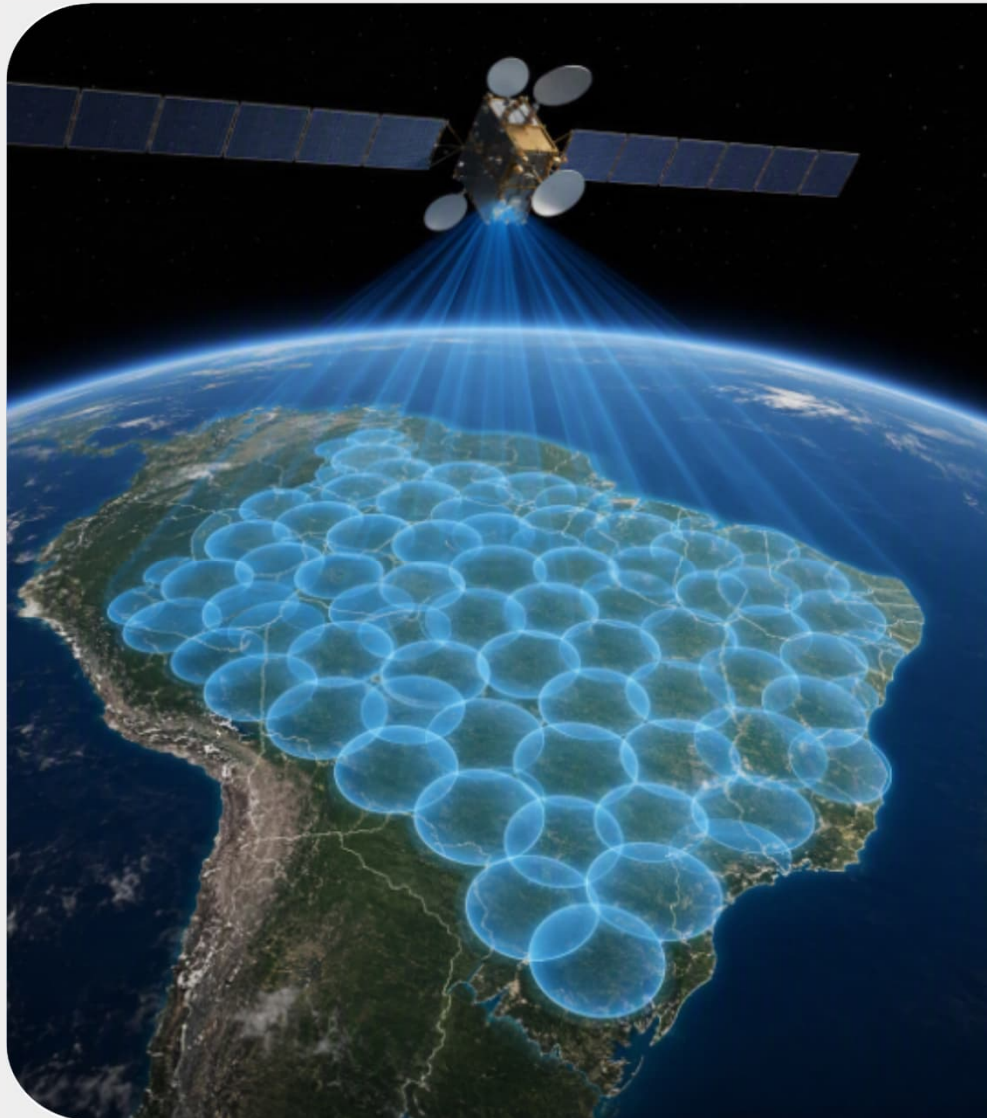




Modernization plan for the Brazilian satellite monitoring station

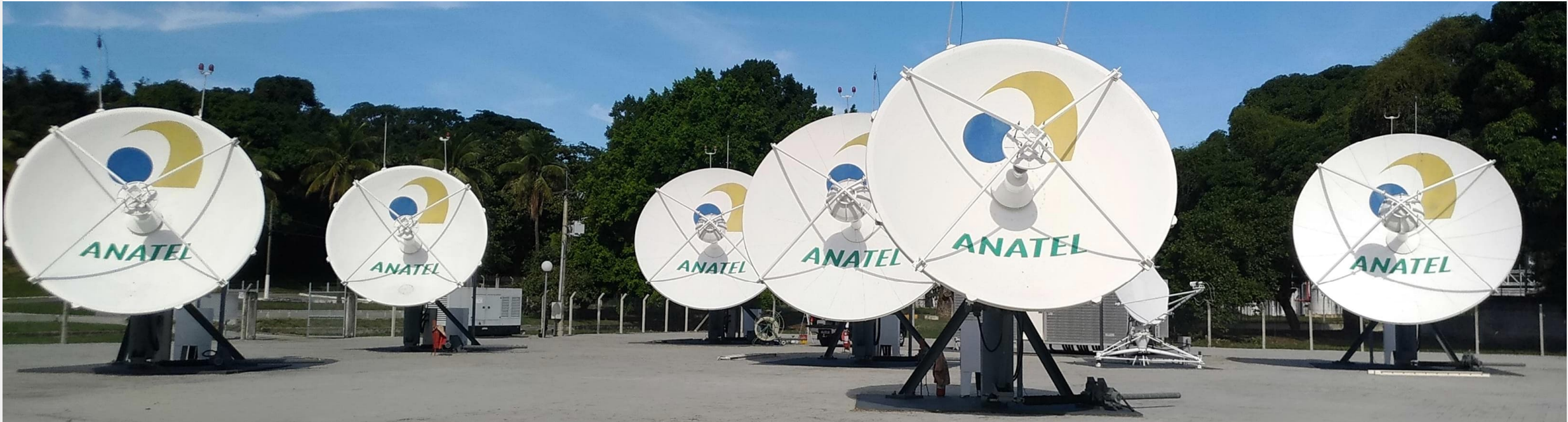
27th ISRMM - Symposium

September 1st, 2026



National Telecommunications Agency - Brazil

Anatel's Satellite Monitoring Station



Antenna	Frequency Band	Size	Polarization	Orbit Limits
1	C	6m	Linear	110° W - 10° W
2	C	6m	Linear	110° W - 10° W
3	C	6m	Circular	96° W - 1° W
4	C ap 30B	4.5m	Linear	80° W - 17° W
5	Ku	4.5m	Linear	110° W - 29° W
6	Ku	4.5m	Linear	110° W - 29° W
7	Ka	2.5m	Circular	110° W - 40° W

Limits:

Geostationary Satellites only

Fixed Location: Rio de Janeiro

New Challenges:

NGSO Constellations Monitoring

Monitoring from different locations



Regulatory Parameters to be evaluated

Power Limits – PFD and EPFD

Avoidance Angle from the GEO arc

Nco: maximum number of co-frequency satellites operating simultaneously within a given geographical area

Orbital Characteristics

Coordination NGSO – GEO and NGSO - NGSO



Satellite Monitoring Modernization Roadmap

Already Completed:

- Definition of the main requirements (November 2025)
- Request for Information completed (RFI) (January 2026) with 13 responses received
- Definition of the capabilities to be implemented:
 - Up to five Fly-Away monitoring stations based on phased-array antennas operating in Ku and Ka bands
 - Fixed parabolic antennas capable of tracking NGSO satellites, operating in Ka, Ku, X, C, S and L bands
 - Upgrade of the GEO satellite geolocation system
 - Modernization of the station management system, integrating existing systems to the new infrastructure

Next steps:

- Prepare the Draft Specifications (October 2026)
- Conduct a public consultation on the Draft Specifications (November 2026)
- Launch the Public Bidding Process (March 2027)



Requirements for Foreign Company participation

- » **Have a legal representative entity constituted under Brazilian law or a formal partnership with a Brazilian company.**
- » **In the event of a partnership with a Brazilian company, submit a co-responsibility agreement regarding after-sales service**
- » **Take into account all Brazilian legislation regarding the costs before submitting the proposal, including but not limited to customs, taxes, and labor matters**
- » **No international bidding process will be conducted. All prices shall be submitted in Brazilian currency (Brazilian Reais - BRL).**



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