

AIR SPACE CONTROL DEPARTMENT - DECEA

SBAS BRAZILIAN PLAN AND ACTIVITIES

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Air Space Control Department - DECEA

- Provides the Aeronautic Telecommunications in Brazil, including the implementation of new CNS/ATM systems.
- Follows the ITU and ICAO Recommendations.

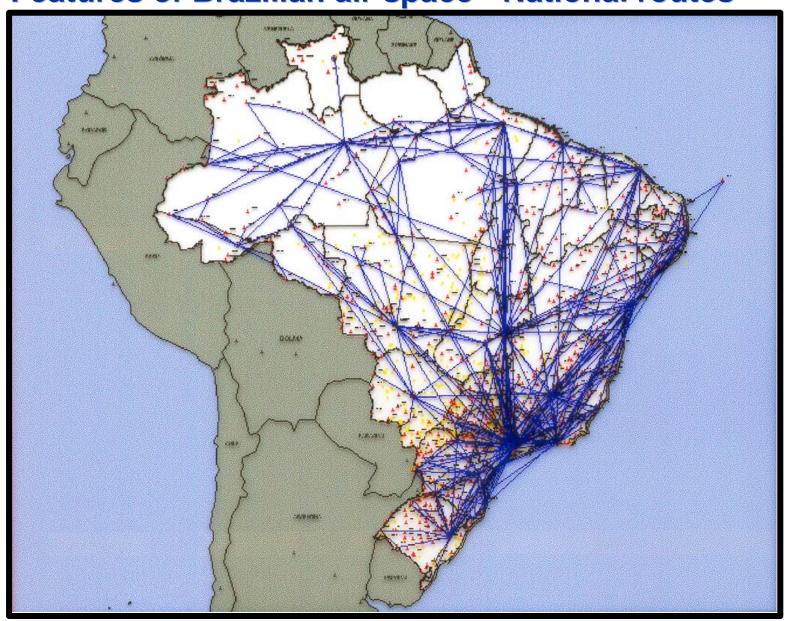


SBAS and GBAS Implementation

• Using the available technology is possible to start the transition to CNS/ATM by "N", without conflict on existing navigation systems.

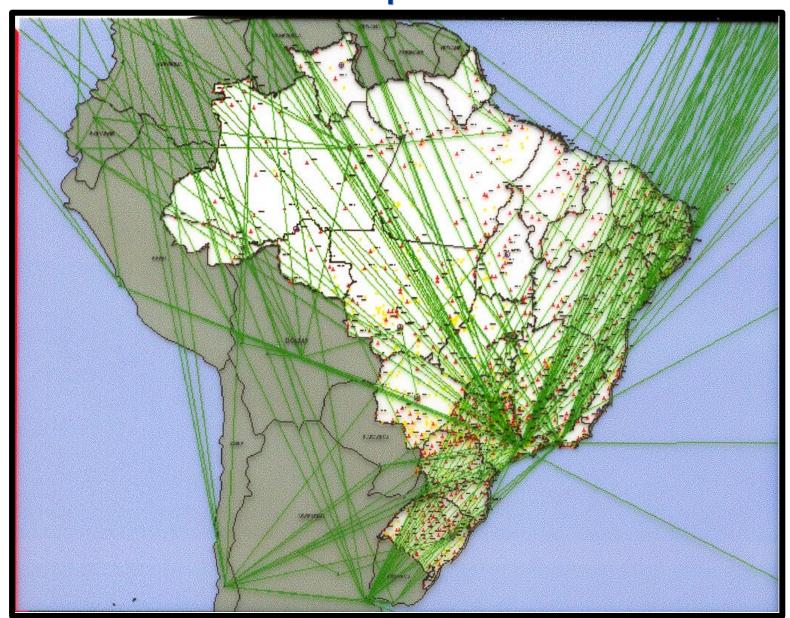


Features of Brazilian air space - National routes



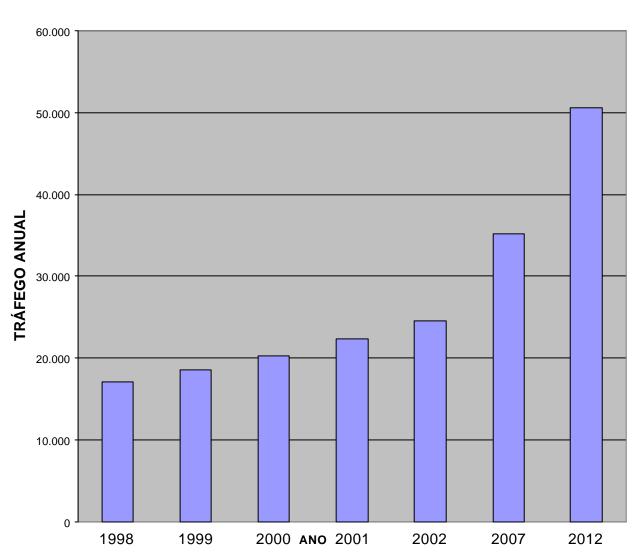


Features of Brazilian air space - International routes





Estimated demand to EURO/SAM routes





Items to Study

- Ionosphere anomalies
- Scintillation
- Costs
- Benefits
- Short period to develop a solution or conclude to use the system with limitations.

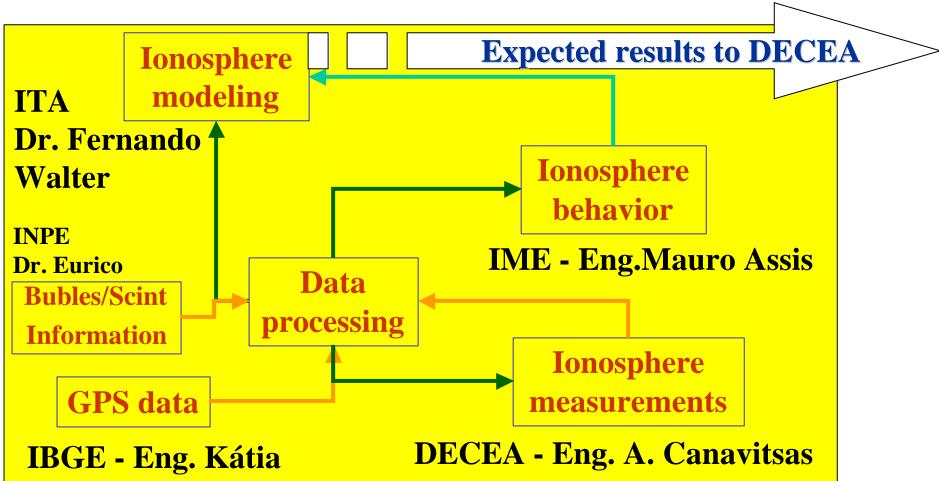


Strategic Decision

- Create a task group: Group Ionosphere -CNS/ATM Comission
 - 3 Subgroups
- Subgroup 1 Scintillation
 - **Coordinator: Corbelli**
- Subgroup 2 Operation Requirements
 - **Coordinator: Carlos Cirilo**
- Subgroup 3 Ionospheric Modelling
 - **Coordinator: Ângelo Canavitsas**



Subgroup 3 - Ionospheric Modelling Preliminary Basic Structure





Interests

- To provide a continuing forum whith technical and operational sectors working on characterizing the impact of equatorial ionosphere on SBAS and try to find ways to deal with.
- To do regional tests, using the available resources.
- To cooperate with SBAS IONO studies.
- To support an efective Brazilian participation.



Questions

- Is there any organization work on ionospheric modeling to south America or to Brazil?
- Is it acceptable to the group (SBAS IONO) to have a particular solution to South America or other region?
- Would the group accept to use a software developed by Brazilian experts on SBAS?
- Can we work together interchanging technical information?
- Does any organization wants to participate on the Brazilian Group?



Conclusion

- Brazil is asking for SBAS IONO cooperation. Suggestions are welcome.
- The studies and tests that will be performed in Brazil will started using the available resources.
- Brazil will have his own strategic decision to face the ionosphere problem on August, 2003.