

# Regional Aviation: Risk Regulation and Training

João S. D. Garcia
Head, Department of Flight Standards







## Regional Aviation in Brazil

#### **Numbers and Challenges**

- Scheduled operations
- 120 airports currently served
- RBAC 135 Sub-regional
- 134 operators 7 approved for scheduled ops
- Projected expansion
  - Government investment in infrastructure
  - RBAC 121 operators investing and building partnerships
  - Voo simples program













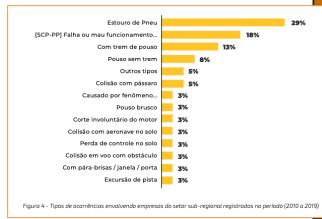


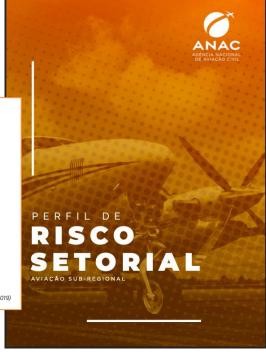


### Performance-Based Regulation

**Concepts and Application** 

- Common causes vs specific risks
- Standard approvals vs specific analyses
- Alternatives to traditional prescriptive regulation
  - Development of guidance and best practices
  - Partnerships (e.g., industry collaborative groups, partners' audits)
  - Industry evaluation/audit programs
  - Rewarding good behavior?





#### **Main Risks**

- Aircraft Operators
  - SCF-PP Loss of thrust resulting in loss of control
  - LOC-I Meteorology related loss of control in-flight
  - In-flight collision Loss of separation resulting in collision
  - CFIT Loss of situational awareness resulting in controlled impact with terrain in controlled flight
- Aerodrome Operators
  - Runway incursion Incursion resulting in collision with aircraft or vehicle
- Both
  - Wildlife strike Collision between aircraft and birds or other animals



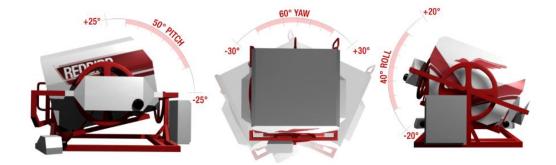




## RBAC 135 – Training

#### Safety and the use of training devices

- Operations under RBAC 135 standards organizational requirements
- Training device as additional support to flight instruction complementing traditional means
- Operator responsible for maintaining device operational with support from manufacturer
- Initial traditional Training Program approved followed by adoption of training device
- Risks monitored and mitigated through the operator's SMS
- Continuous adjustment and improvement after initial assessment
- Surveillance simulated scenarios, in-person monitoring of training by ANAC inspectors
- Current rev.:
  - Initial: 10h → 6h + 16h
  - Recurrent: 4h → 3h + 9h
- Future: use of virtual reality training?













## Obrigado!

João S. D. Garcia

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joao.garcia@anac.gov.br









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