



Evolution of SSP implementation ANAC's perspectives

Third Annual State Safety Programme (SSP) Coordinators Meeting
Lima, 21-25 April 2013



Brazilian Numbers – Civil Aviation

Brazilian Numbers - Aviation

RBAC 121 Operators: 11
RBAC 135 Operators: 170

ATOs: 398

Registered Aircraft: 14,000

Registered Pilots:

- 48,000 airplane
- 10,000 helicopter

Public Airports: 725 (120 with regular transport)

Maintenance Org. (bases): 361 (483)



Brazilian Numbers - Aviation

Departures (2013):
Regular Transportation: 1,000,000
Other departures: 995,000

ANAC: ~650 Inspectors

Operators under certification:
4 RBAC 121
33 RBAC 135

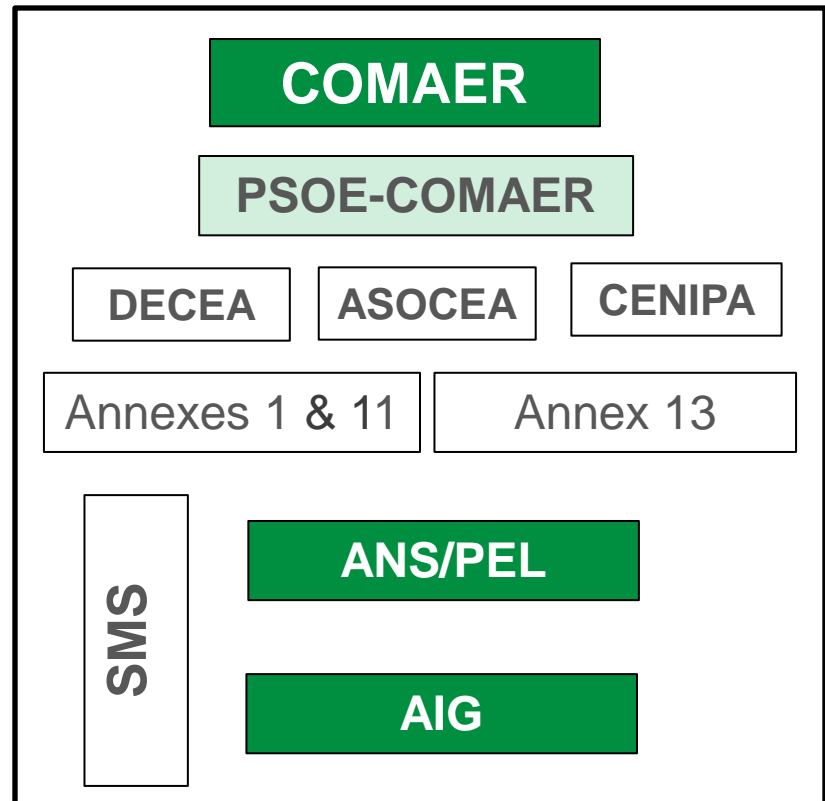
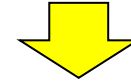
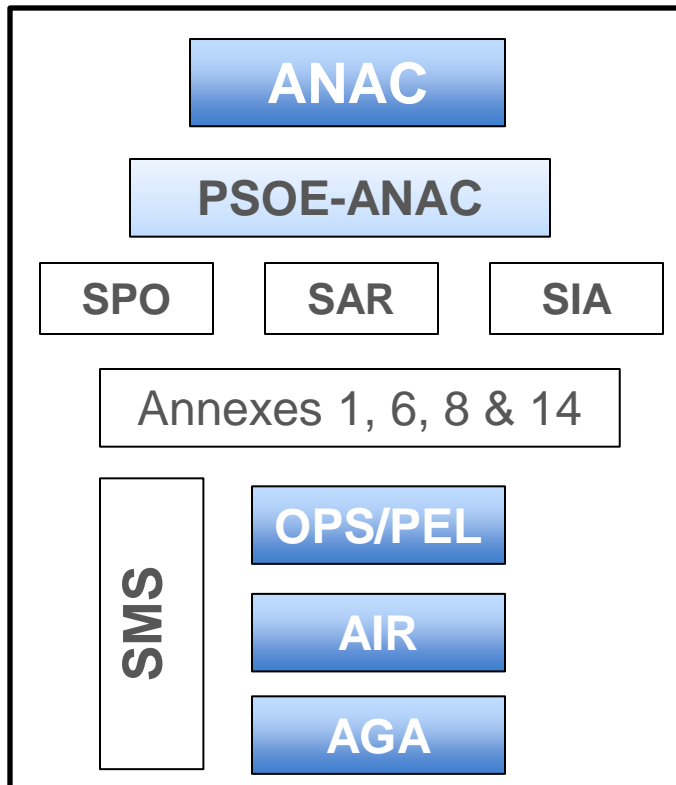
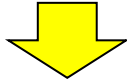
Personnel Licensing:
8000 licenses emitted in 2013





SSP Structure and evolution

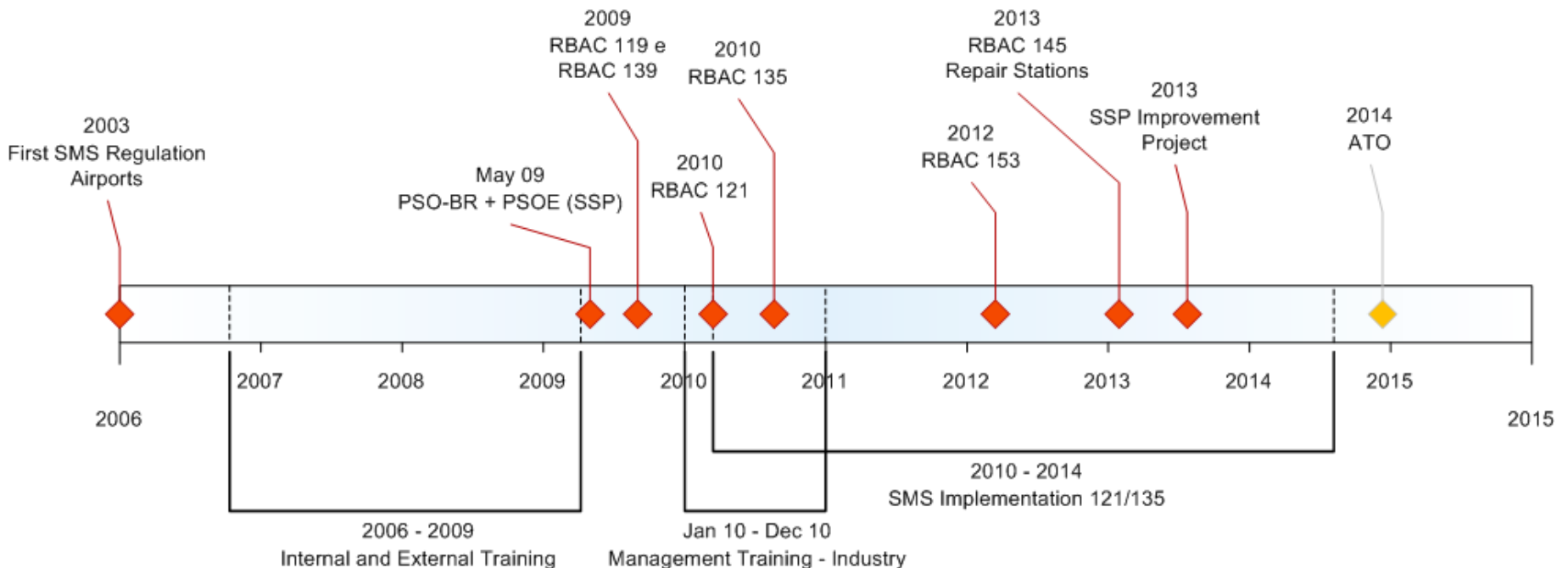
State Safety Programme (PSO-BR)



PSO-BR

- Establishes guidelines;
- Each authority elaborates its own Specific Safety Program (PSOE);
- PSOE-ANAC & PSOE-COMAER, are part of PSO-BR;

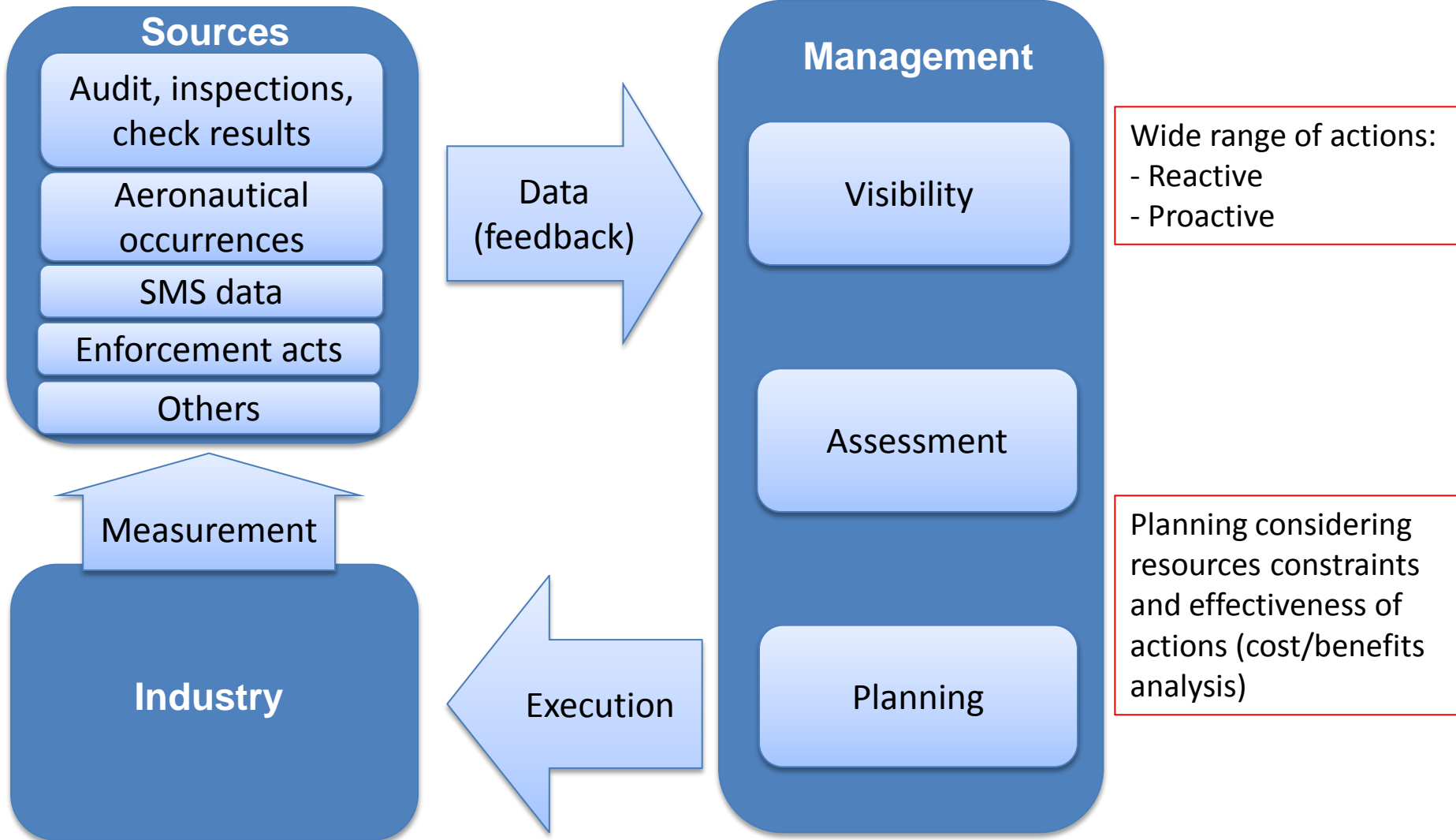
- Continuous implementation and improvement of SSP;
- Main regulations on SMS were issued and updated;
- First RBAC 121 SMS audits were done in 2013.





Improvement of Surveillance and Planning Model

Surveillance and planning model

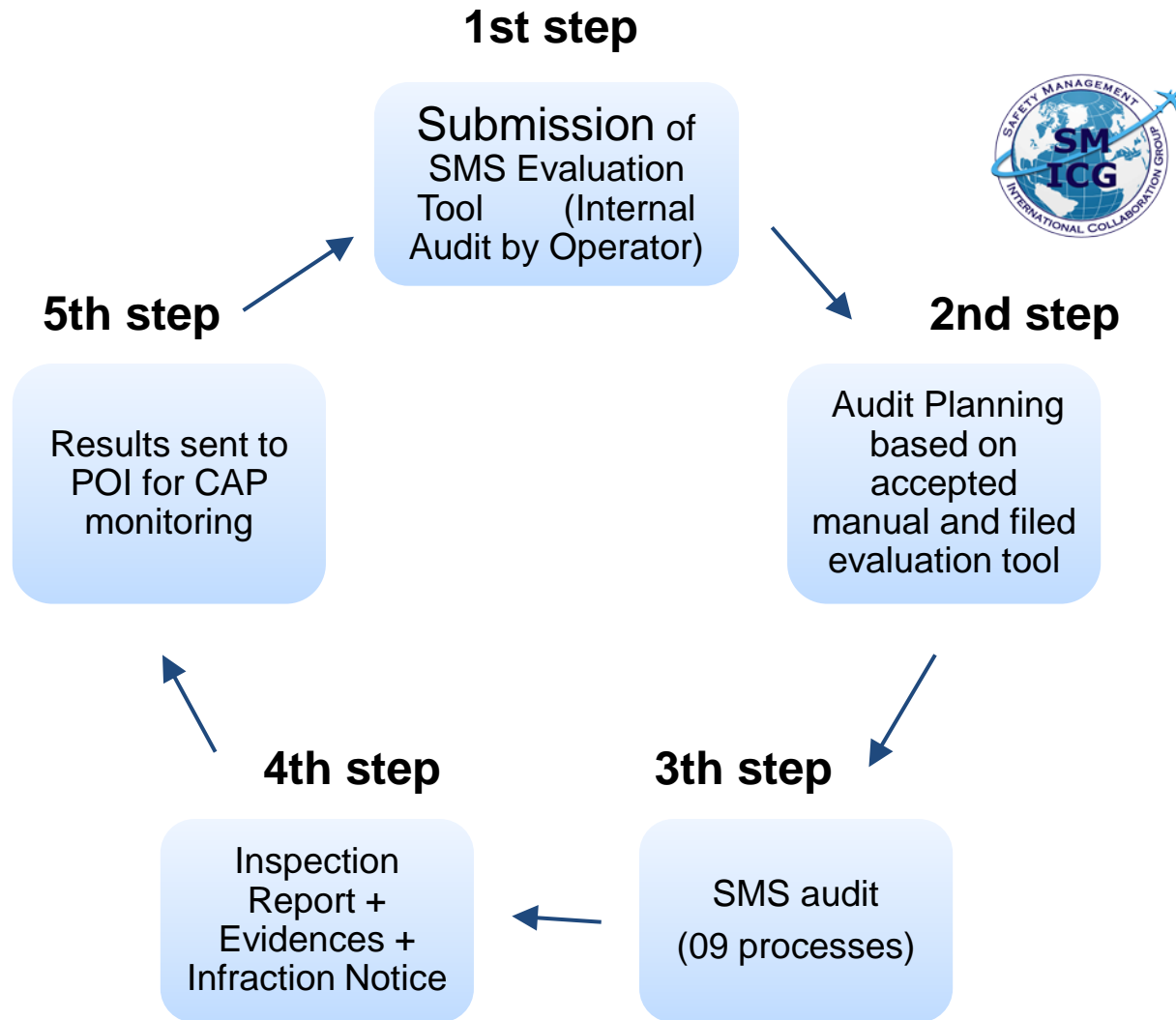


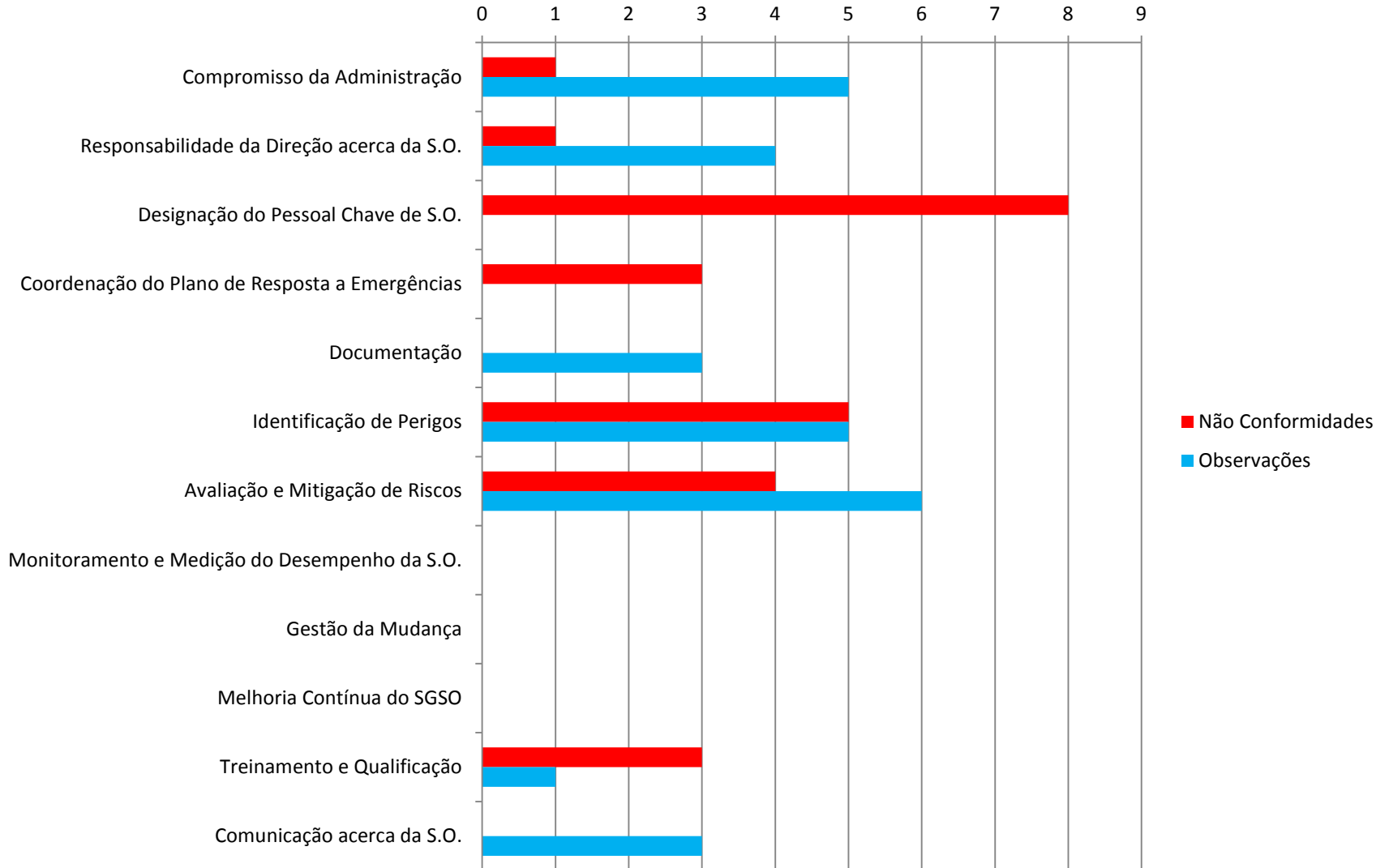
- Prioritization of air taxi operators surveillance
 - Data-driven inspection planning
 - Less based on prescriptive frequency
 - Use of inspection results on definition of next cycle
 - Directing resources to under-performing operators
- Challenges
 - Model refinement
 - Collect and aggregate more data



SMS Audits in RBAC 121 Operators

- **SMS monitoring indicators – defined**
- **Safety Performance Indicators – defined**
- **SMS Audit Procedures (based on SM-ICG reference material) – issued**
- **Improvement of the Organizational Risk Profile;**
- **Acceptance of Operators SMS manuals; and**
- **First cycle of audits concluded (14 total).**





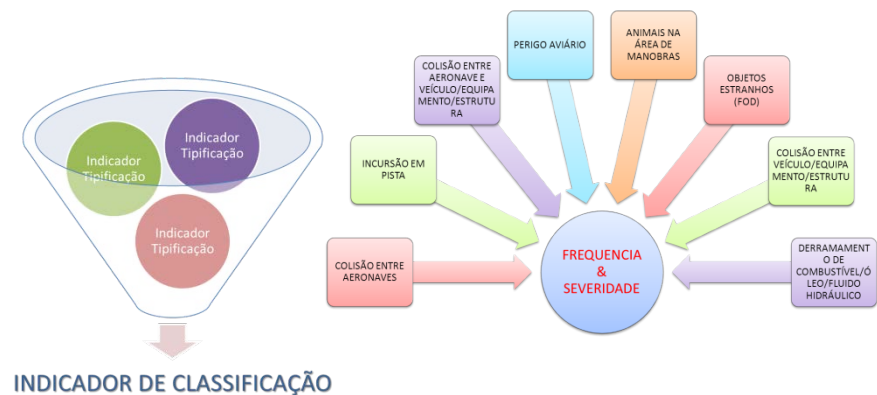
- ORP assessed biannually by POI;
- Incorporates 31 parameters, including data on
 - Operations;
 - Finance;
 - Airworthiness;
- ORP level defines SMS inspection frequency
 - A = every 24 months;
 - B = every 18 months;
 - C = every 12 months;
 - D = every 6 months; and
 - E = every 1 month.



SMS at Airports

- SMS is currently a requirement for all airports with regular air transport operations (RBAC 153)
- Greater focus is given to airport operators undergoing certification process (RBAC 139)
- Evaluation during certification
 - Formal SM Manual analysis
 - Process oriented inspection
 - Some SMS items are mandatory for certification in addition to operations and maintenance requirements
 - Check of process compliance to SM Manual and regulations

- New developments
 - Collaborative Definition of Safety Performance Indicators – to serve as the basis for the ALoSP
 - Structuring the “Hazard library” - creation of reference material and support tool

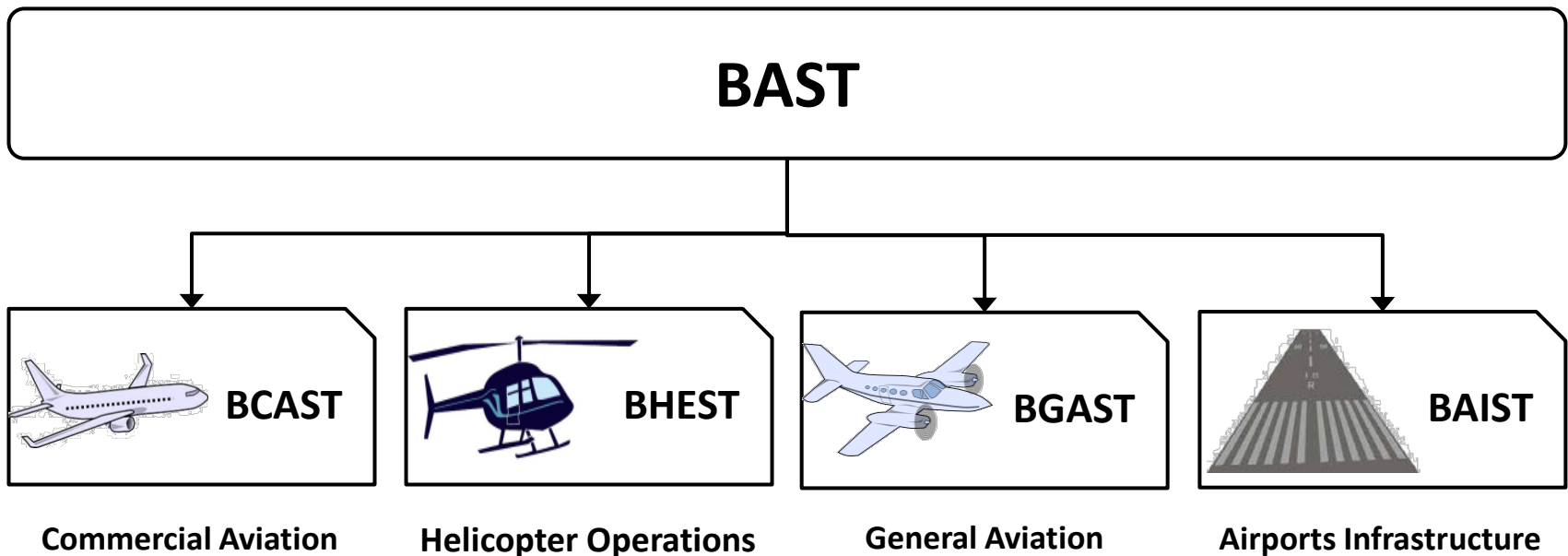




Safety Data/Information Exchange

- Initiative established by ANAC in 2011 in order to foster safety improvements in conjunction with civil aviation service providers and the aeronautical community.
- Integrated industry actions
- Data exchange and sharing of best-practices
- Similar initiatives:
 - CAST (FAA)
 - ECAST (EASA)
 - RASG-PA (ICAO)





- Definition of a common taxonomy;
- Using IATA's FDX data exchange platform;
- Development of Safety Enhancement Initiatives (SEIs) and Detailed Implementation Plans (DIPs) to address general aviation and infrastructure issues (BGAST and BAIST);
- Continuous improvement of the communication channels (ex. website, data repository, etc.).



Further development of PSOE-ANAC

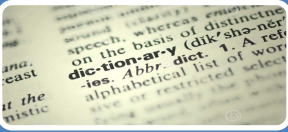
Further Improvement – Priority Project

Improvement of PSOE-ANAC



Categorization of Service Providers

- SMS applicability and scalability



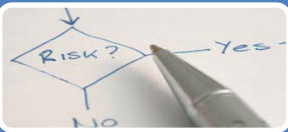
Terms definition – RBAC 01

- Harmonization of definitions among SPs and Departments



Definition of Performance Indicators and Acceptable Levels

- Measuring surveillance effectiveness and efficiency



Safety Risk Management Process

- Establishing processes and tools



Internal SSP Audits

- Creation of tools for assessing SSP effectiveness



Strategies for Training and Communication

- Internal/external training and data exchange



- Thank you!