



Examples of methodologies

Tool for its application

OPS

Risk Based Surveillance (RBS)

Module 3 Introduction to the ICAO iSTARS tool

Lima, Peru, March 9-13, 2020

iSTARS Apps



Risk Based Surveillance

Data-driven inspection schedules for operations



RBS App



Operational Complexity Level

Category	Score
Overall	7

Annual Flights: 4000 to 45000 *

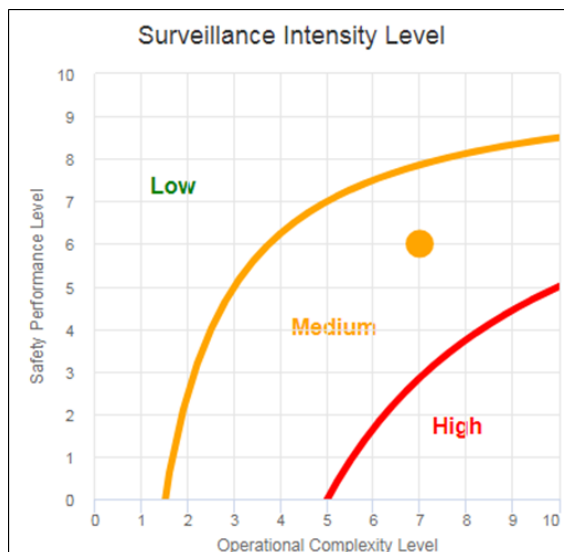
Aircraft: 17 or more *

Aircraft Models: 2 to 4

Destinations: 11 to 50

Is International: Yes *

Average Fleet Age: 5 to 15 years *



The sample size is defined using the ISO sampling model. The base inspection is unique and its period only depends on the intensity.

Activity Type	Related Population	Minimum Activities	Periodicity
Route Inspection - Cabin	Stations	8	2 months
Route Inspection - Flight Deck	Stations	8	2 months
Ramp Inspections	Aircraft	13	1 month
Station Inspections	Stations	8	2 months
Check Pilot Inspections	Check Pilots	3	4 months
Base inspection	-	1	18 months

The attached schedule integrates all the above inspections with their respective samples and distributes them over one year, 52 weeks. The base inspection schedule covers 3 years.



RBS App

ORP





RBS App

<https://portal.icao.int/space/Pages/Risk-Based-Surveillance.aspx>