#### 2nd WBA Webinar 2022

#### **Brazilian Key Indicators**

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#### March/2022

### Why do we need it?





# Organizations and Wildlife Hazard Indicators in Brazil

MINISTÉRIO DA DEFESA COMANDO DA AERONÁUTICA



#### INVESTIGAÇÃO E PREVENÇÃO DE ACIDENTES AERONÁUTICOS

MCA 3-8 Wildlife Hazard Management

Manual

2017



#### **CENIPA**

Aeronautical Accidents Investigation and Prevention Center

#### Brazilian Air Force



# Organizations and Wildlife Hazard Indicators in Brazil







### What is considered a strike in Brazil?

#### **CENIPA DEFINITION OF COLLISION/STRIKE**

It occurs when at least one of the following situations happen:

- Crewmember/Ground personnel notices a strike;
- ✓ Aircraft maintenance personnel identify aircraft evidence or damage caused by wildlife;
- Carcass/traces are found within 50 meters of runway or taxiway border, or within 300 meters from a runway threshold;
- The presence of the animal on- or off-aerodrome produces a significant effect on flight (i.e., aborted take-off, runway excursion, go-around to avoid impact etc.)





Proportion of multiple strikes

PCM= number of multiple strikes number of total strikes

Proportion of damaging strikes

PCD= number of damaging strikes number of total strikes

Average Strikes Mass

MM= sum of mass in strikes number of total strikes







✓ Ignore severity

#### ✓ Discourage reports







- ✓ Depend on a strong data source
- ✓ Depend on good communication about damage from airlines





Average Strikes Mass

MM= sum of mass struck number of total strikes

**KEY POINTS:** 

✓ Depend on CORRECT IDENTIFICATION

~60% damaging/significant strikes = Non-specie



















# How to create SMART KPIs?

GOAL: Improve Safety/Cost

+			Proportion of damaging strikes			Strikes/10.000
$\bigcirc$	<b>S</b> PECIFIC	Do you have a specific goal? Do your indicator is related to your goal?	$\bigotimes$	Precise – focuses on damage		Weak - Ignores severity
	M EASURABLE	Do you have the correct and reliable parameters?	$\bigotimes$	Database has damaging strikes info		Database can be weak - discourage report
P	A CTIONABLE	Can you achieve results? Can you act over it?	$\bigotimes$	Actions are improving/worsening		Difficult to define where to act/tackle
Q	<b>R</b> ELEVANT	Can the information be applied to the specific problem?	$\bigotimes$	Information is important to safety		The result can be misinterpreted
Ö	<b>T</b> IME-BOUND	Can the objective be set for different time periods as targets to review against?	$\bigotimes$	The indicator can be periodically calculated	$\bigotimes$	The indicator can be periodically calculated



# **INVITE:** Group Discussion Initiative

- ✓ Inspired in Wildlife Hazard Management SME Group
- $\checkmark\,$  Supporte by: WBA and REET Brazil
- ✓ Monthly meeting
- ✓ ~ 40 participants
- ✓ Two countries: Brazil and Portugal
- ✓ ~10 countries speaking Portuguese





Brazilian Association working with ecology and transportation



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