

ICAO/ACI WILDLIFE STRIKE HAZARD REDUCTION SYMPOSIUM 16 - 18 MAY 2017

AERODROME WILDLIFE HAZARD MANAGEMENT PLAN



A long term cooperation with...



Our know-how → since more than 25 years





A scientific expertise



A professional approach!



A recognized know-how!



Wildlife Hazard Prevention Unit

A certified teaching methodology!



Education through experience and skills





International Airport Environment Training Center



Changes in legislation



ICAO Airport Services Manual,

Part 3 Wildlife Control and Reduction, doc 9137 - Fourth Edition - 2012 SARPs

Standards & Recommended Practices

ICAO

EASA Recommendations



Country civil aviation rules (e.g. France)

Airport wildlife control programme including :

- Processes and working instructions
- airport wildlife strike risk analysis
- Organization scheme
- Airport environmental management plan
- Etc.

Airport regulations

Regulation (EC) No 1108/2009

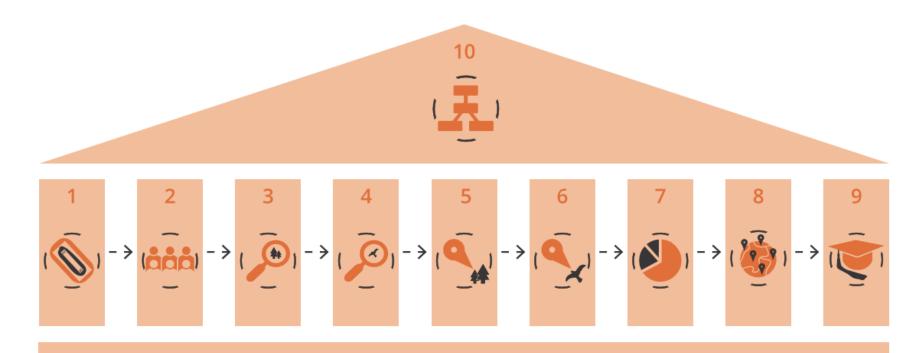
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Regulation (EC) No 139/2014

Etc.



Methodology - Overview



Airport wildlife strike risk management





Methodology: #1 Perimeter







Methodology: #1 Perimeter

the perimeter of responsibility of the airport

Define and map the perimeters of the study and the responsibility of the airport in terms of WHP, particularly:

the immediate perimeter (3 kilometres)

g g

the wider perimeter (13 kilometres)



Methodology: #2 Organize WHP









Methodology: #2 Organize WHP

Appoint the wildlife hazard manager

Organize the wildlife hazard prevention:

Set up and organise the wildlife hazard prevention service

Set up and organise a local wildlife hazard prevention committee

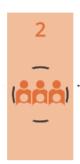
Define the mandates and responsibilities of the players in the "wildlife hazard" process





Methodology: #3 Your environment











Methodology: #3 Your environment

Perform the environmental diagnostics for the airport and monitor modifications to the environment within the perimeter of responsibility:

Identify the natural and anthropic media

Assess the biological value of the natural media

Identify and locate attractants

Map the natural and anthropic media as well as the hot spots

Permanently monitor modifications to the airport environment





Methodology: #4 Wildlife













Methodology: #4 Wildlife

Perform the wildlife diagnostics for the airport and its surroundings, as well as monitoring the wildlife populations, within the perimeter of responsibility and the immediate perimeter:

Consult the wildlife databases

Record the species present

Quantify the number of individuals of each species

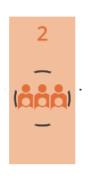
Locate the populations

Identify the potential breeding sites



Methodology: #5 Passive measures















Methodology: #5 Passive measures

immediately and in the medium-term in the plan for changes to the airport natural environmental media

Elaborate measures to be implemented

Develop the plan for changes to the airport environment and define the passive preventive measures.

Define the passive preventive measures

Draft the airport environmental management plan

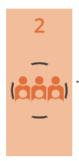
Develop the maintenance works implementation programme





Methodology: #6 Active measures

















Methodology: #6 Active measures

Define the intervention procedures and methodologies

Implement active prevention measures

Develop the active prevention schedule

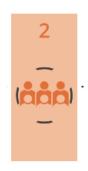
Define and acquire the means for intervening (visual, pyrotechnical, acoustic, culling and chemical)

Ensure the personal protection of WHP agents



Methodology: #7 Datas



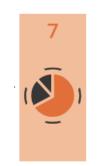
















Methodology: #7 Datas

Develop the data collection and statistical analysis programme (manually or using a computer tool):

Organise the data collection

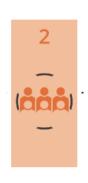
Process the data

Publish the statistics



Methodology: #8 Assess risk

















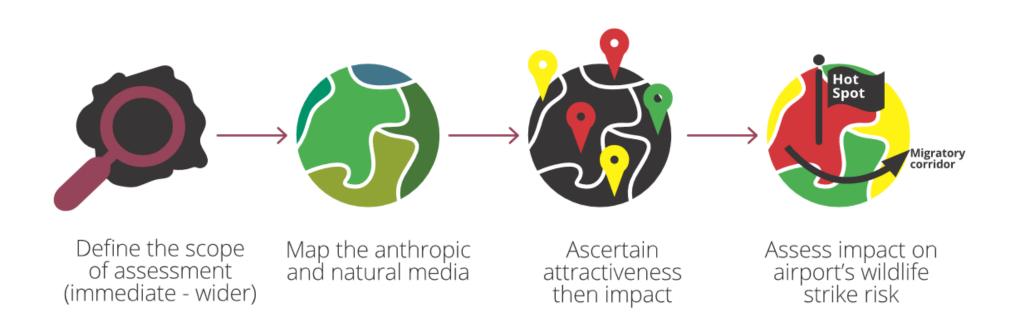




Methodology: #8 Assess risk



"Methodology for assessing the level of impact on the airport wildlife strike risk within a radius of 13 kilometres" (MAINRA-Airport®)





Publication of an extensive explanatory report:

- **Introduction**
- **☑**Perimeters
- Media
- ☑Level of influence on the airport's wildlife strike risk

- ☑Management of level of impact recommended mitigation measures
- ☑Conclusion & annexes (maps, fact sheets, etc.)



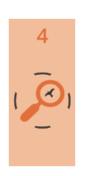


Methodology: #9 Training























Methodology: #9 Training

Develop a training plan for the staff

plan for those responsible for wildlife hazard prevention:

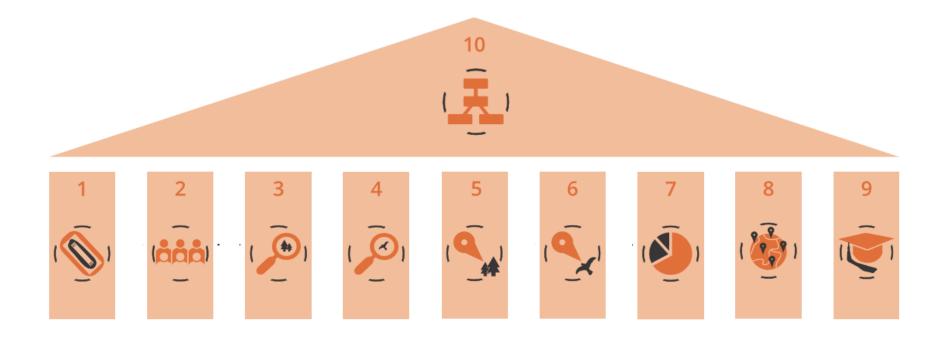
Provide the wildlife hazard agents with initial training



Put maintenance and advanced courses and ongoing staff training in place



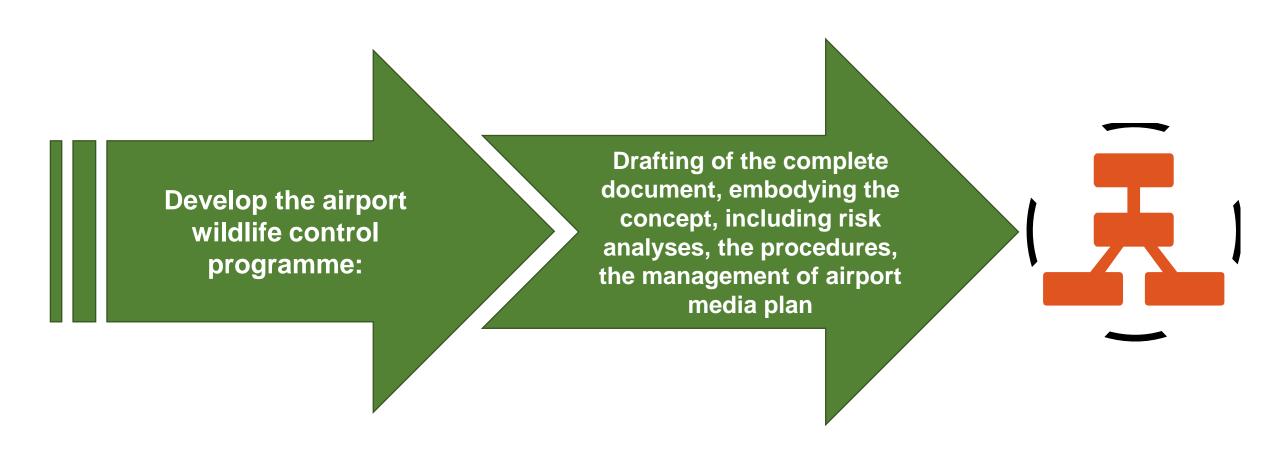
Methodology: #10 Wildlife control programme





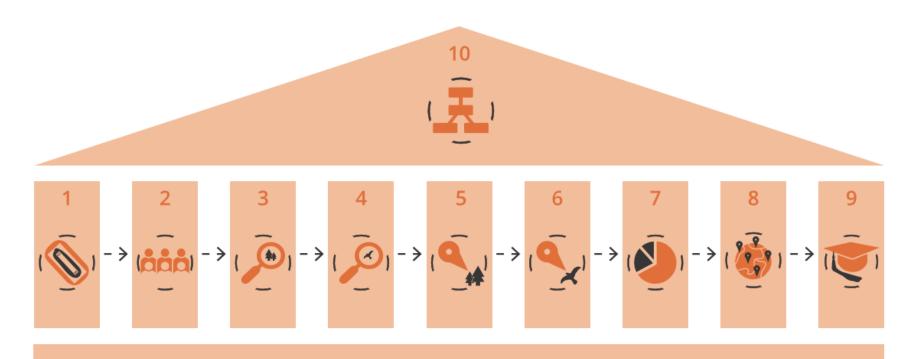


Methodology: #10 Wildlife control programme





Methodology - Summary



Airport wildlife strike risk management

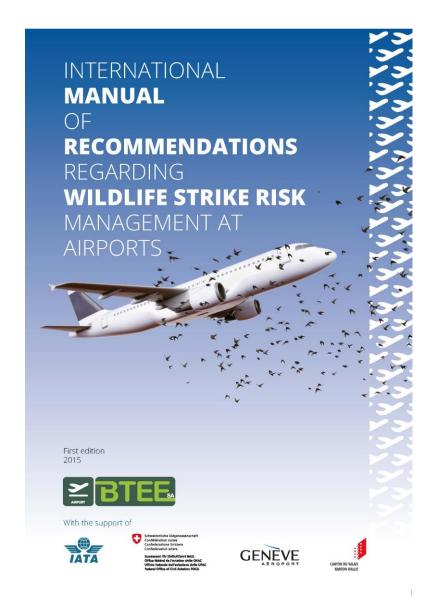




A complete toolbox for safeguarding both air users and the wildlife present near airports

Published to support airport operators & WHM Managers

Including MANIRA-Airport® risk analysis software







Thank you for your attention!



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