A spotlight on promising visual repellent systems by AIRBUS & CNRS

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What's up on bird strikes
Viewpoint: a growing up issue but not enough analyzed

Climate change,
Traffic increase
Protection of birds,
...

many statistics, but

Still so difficult to size the reality of the costs!

4 k$ ➔ 30 k$ ➔ 200 k€ Per Aircraft / year?
Many responses **but** not up to the job

Current systems **don’t** match the scale of the problem
In term of effectiveness...

« Effectiveness unproven »
« Short term efficiency »
« Birds get used to… »

A definitive solution?

Even not efficient!
An innovative approach

A Visual stimuli

Quick effect (1 – 2 sec)

Durable effect - no acclimatization

Ethologist approach:

« all systems are based on what we imagine that scares the birds »

➔ must be seen in another way!
A research project on visual repellent systems

Laurence Henry
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TESTS: in laboratory (1)

3000 trials

Various stimuli tested

3 effective

2012

LCD screen
Even raptors well react
Tests: Wildland

8600 birds tested, 29 species of 4 groups:

- Shorebirds,
- Anatidae,
- Laridae,
- Passerines

Visual stimuli do repel most species until 400m
More than 2000 pigeons per day well fed in a huge “pantry”

Metallic structures, big walls, roofs… in which

Birds feel totally secure and comfortable
Tests: Grain harbor (1)

- A progressive decrease in the number of birds
- Progressive reduction due to the important turn over of the pigeons’ population
- Pigeons came back only two weeks after the screen was switched off
- More pigeons in other areas of the harbor.

High efficiency: twice less pigeons after 3 days
TESTS: Grain harbor (3)
Migrations (on process)
Long term tests
Airports
Offshore
Others…

Have you got one?

WANTED! Playgrounds

Mexico, 21 October 2014 philippe.boiteux@airbus.com
A product range

Ground system

Embedded system

Still under evaluation

Mobile

Stand alone configuration

2015

20..
Together to tackle the Bird strikes issue.

A two levels of cooperation is requested

AIRWAYS

Report

Benefits

Tests

Invest

Development

Supplier
Impatient to see what the stimuli looks like?
Contact us for a collaboration!

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