



FOD fact or FOD fiction.
Have you seen or could you prevent FOD like this ?

Neil Pritchard
Heathrow Airport

Heathrow

Sharing stories and memories



Social Media Users



How many
people
recognise this?



And this?

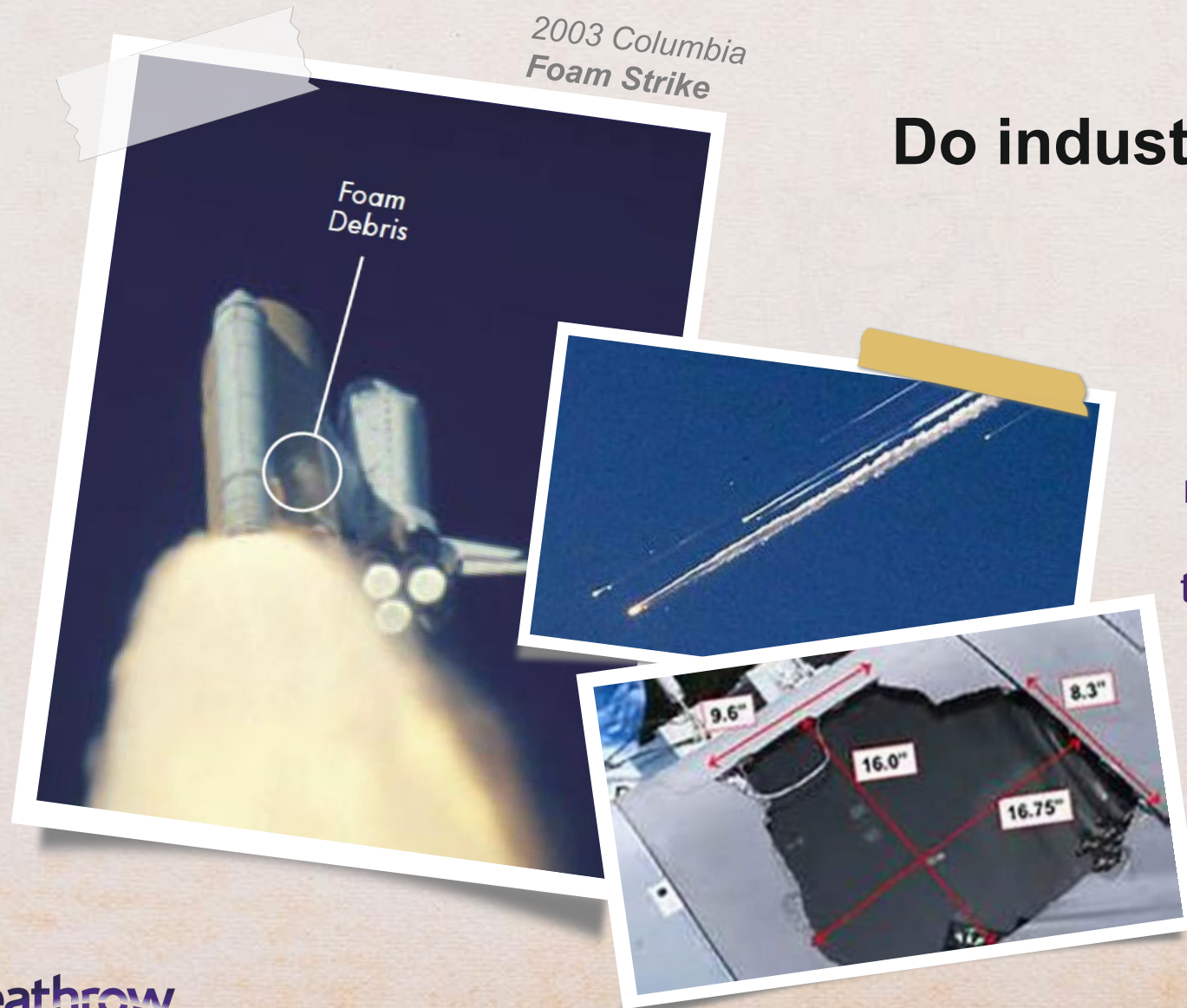
We all remember the incident that really highlighted the requirement to do more with **FOD Monitoring and procedures?**



Paris 25 July 2000
Concorde Accident

Heathrow

2003 Columbia
Foam Strike

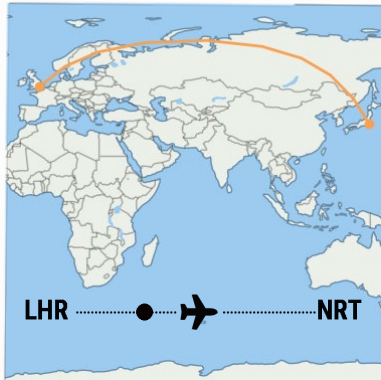


FOD or Not

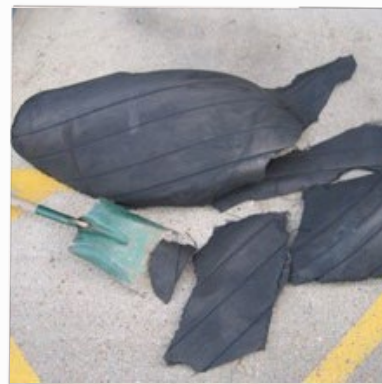
Do industries learn/change ?

82 seconds
after Columbia left the ground, a
piece of foam fell from a "bipod
ramp" that was part of a structure
that attached the external tank
to the shuttle and struck the wing.

Need to change ?



AGL fitting



Tyre FOD on runway
15 December 2005



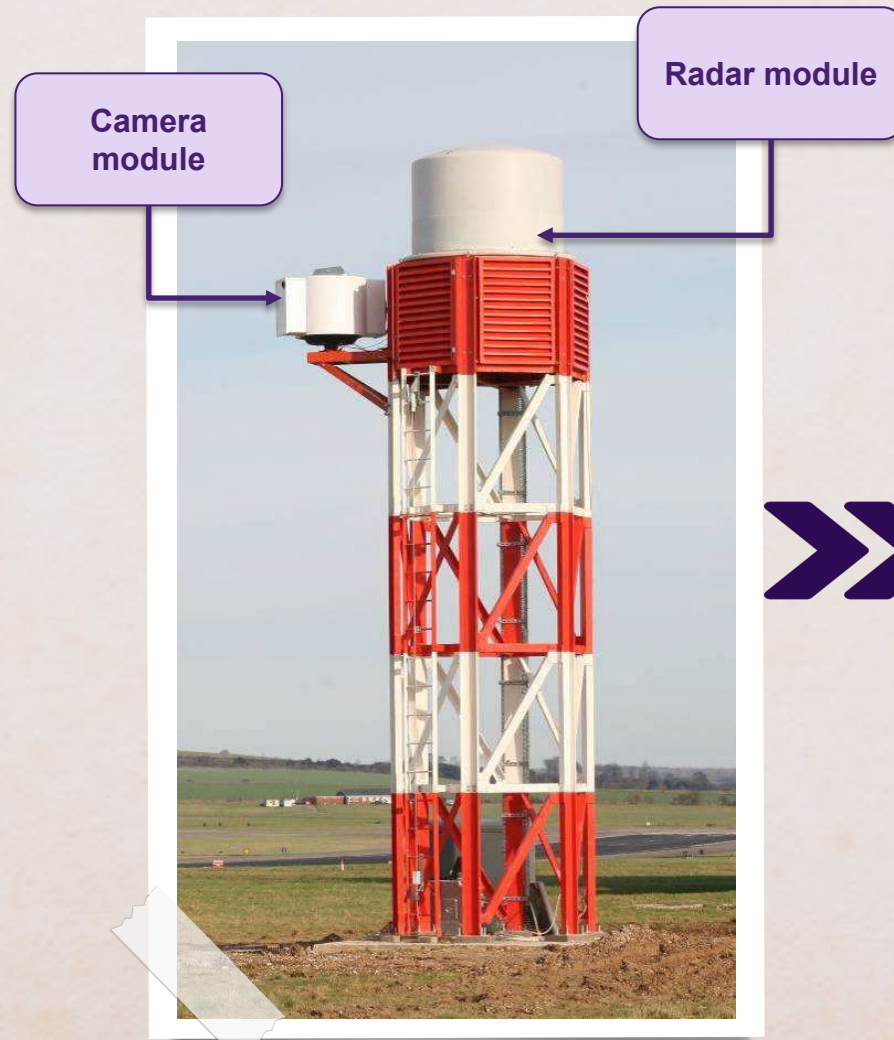
Aborted Take off
2005



B747 panel on runway
08 June 2006

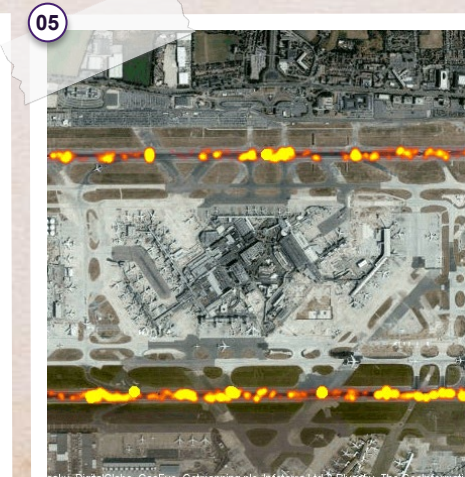
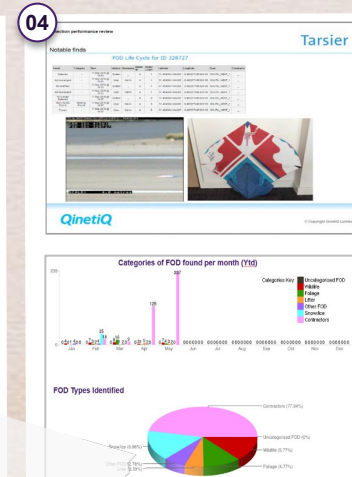
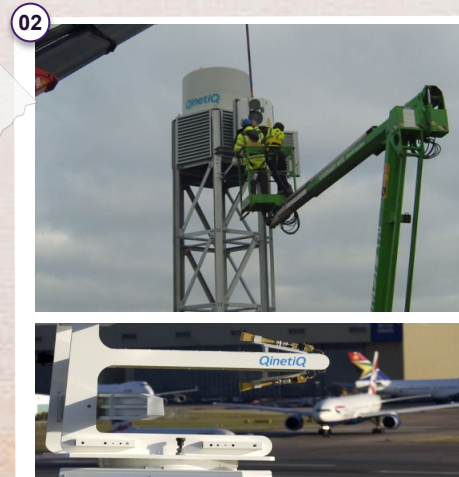
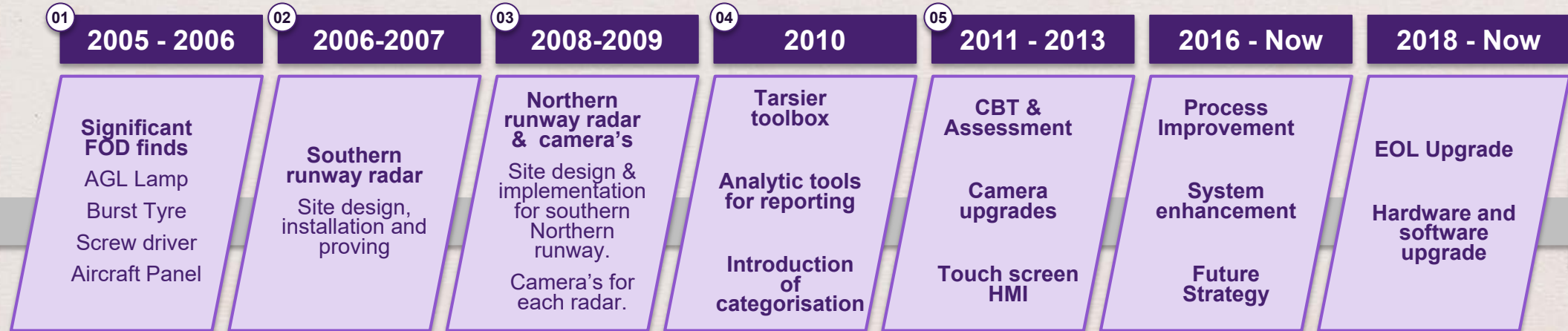
Tarsier System Overview

- Two Camera's radars, for each runway.
- Sensitivity configurable
- HMI to review alerts in Airfield operations
- Defined process to respond to FOD alerts

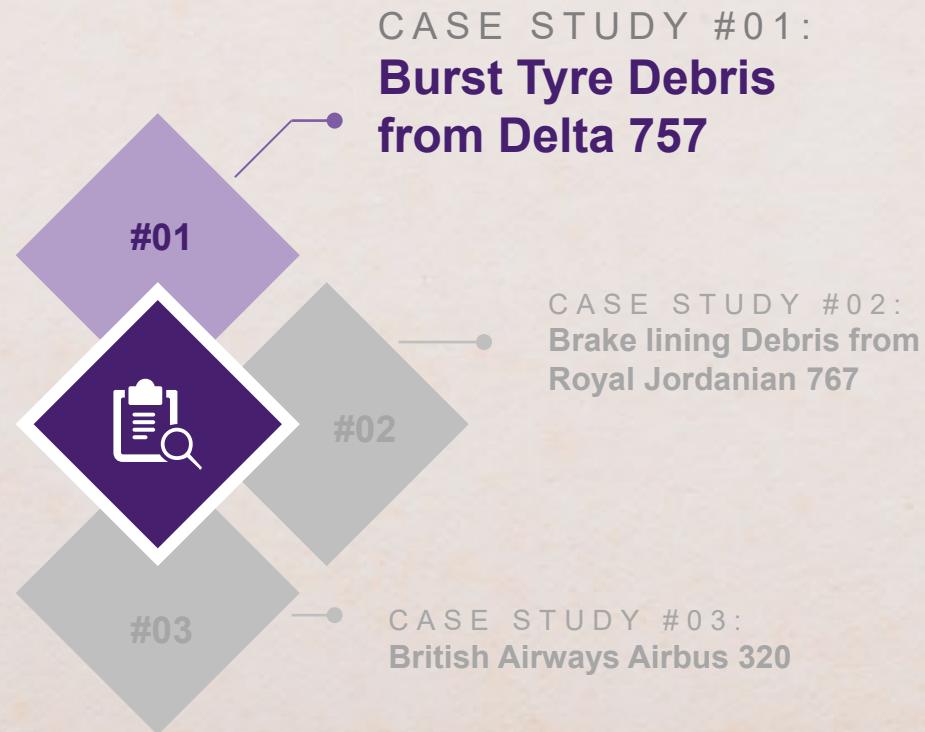


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The partnership with Tarsier system at Heathrow has developed over 15 years



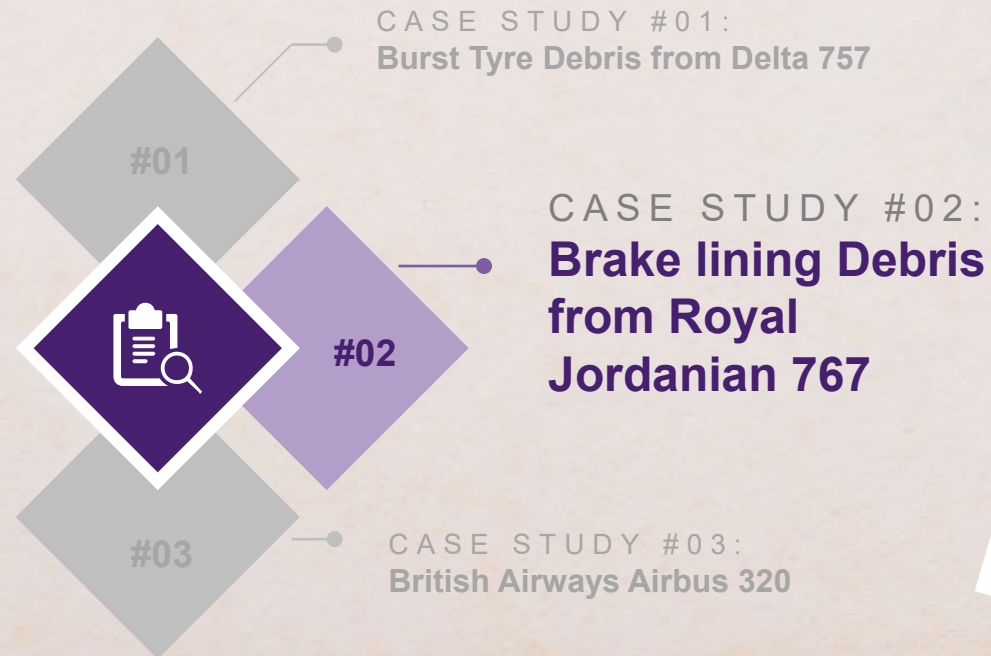
Picking Up ALL the Bits & Pieces: 3 Case Studies



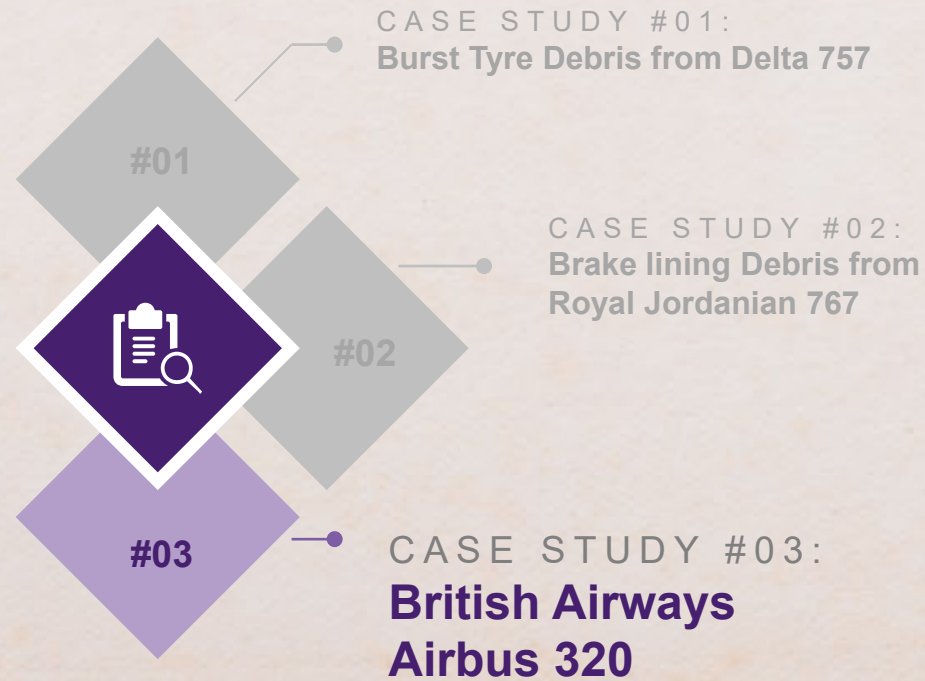
125 Activations

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Picking Up ALL the Bits & Pieces: 3 Case Studies



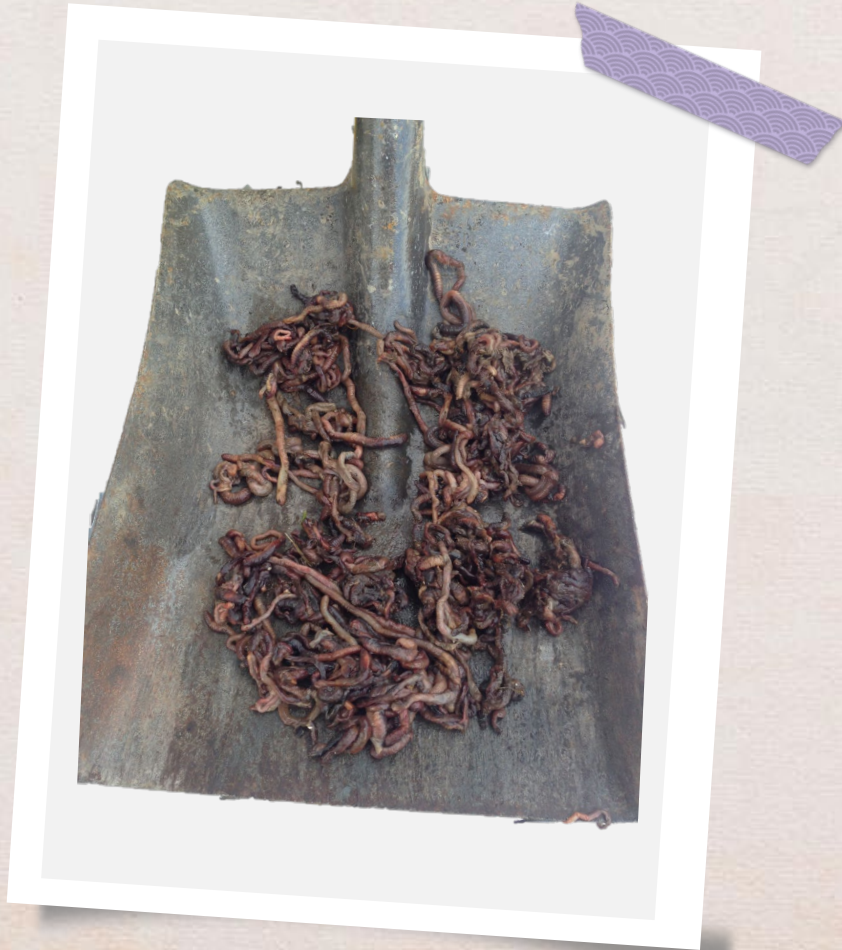
Picking Up ALL the Bits & Pieces: 3 Case Studies



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Managing FOD is a real can of worm!

Is it FOD or Fault?

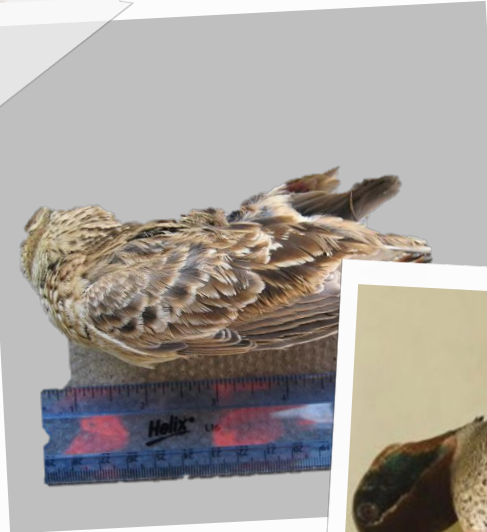


'FOD' finds can help us **manage habitat and wildlife**

FOD or Flying FOD?



Pigeon Carcass



Skylark



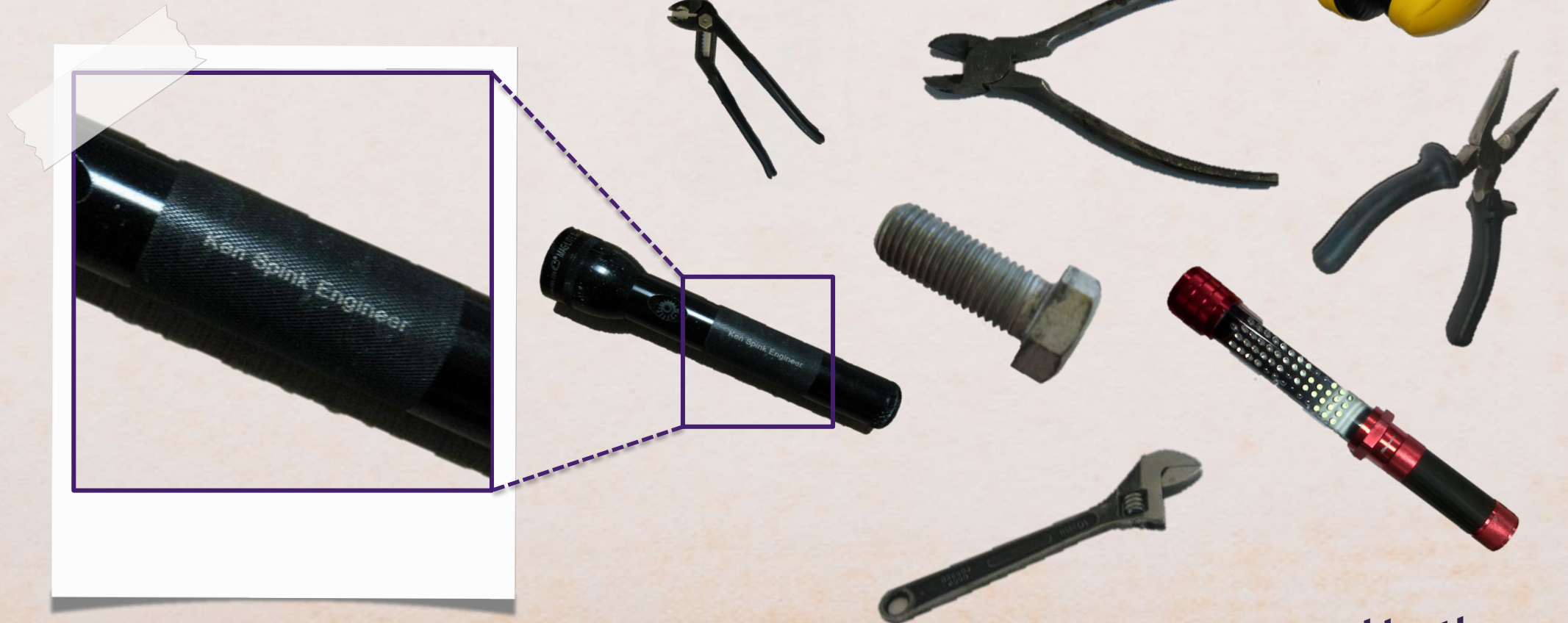
Teal (Duck)



Owl

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Making sure you have the right tools for the job!
“Does Ken Spink work here?”



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**No one wants to see
the wheels or other
parts to fall off!**



FOD really is nothing to celebrate!



Kite



Oriental Lanterns



Helium Balloons

FOD isn't just rubbish!



During its lifetime the system has made early identification of items that pose a **threat to aviation safety**



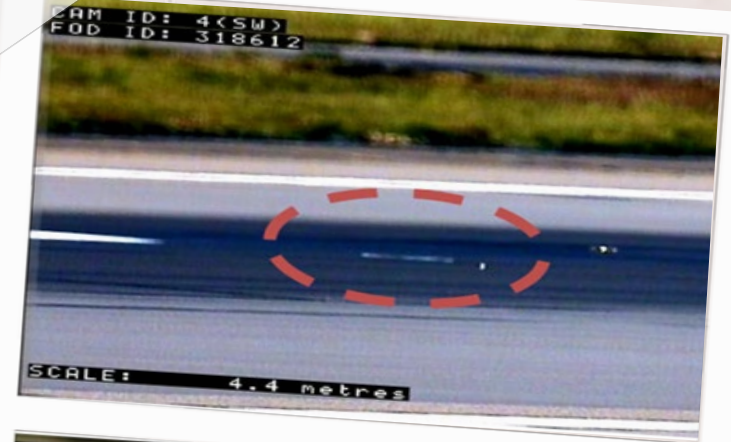
Man and Machine ? Need to improve processes

CASE STUDY #01:
Paint Tin Lids

CASE STUDY #02:
The Grease gun
(The one where it
didn't stay still)



Case Study #01



Case Study #02

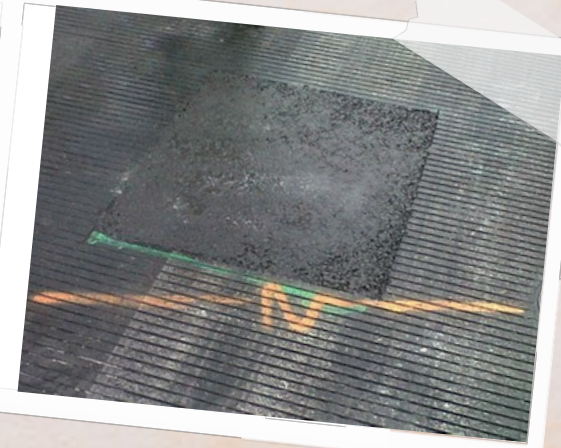
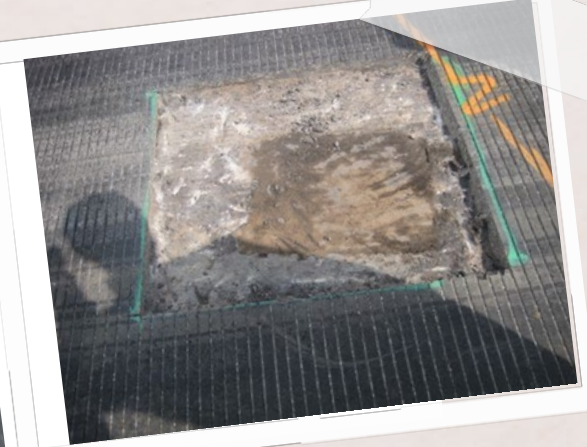
When Maintenance become FOD... What do you do....



**When
Maintenance
become
FOD...**

**What do
you do....**

**Dig it out! /
And put it
back**



The cause???



*The Mud Flap
Case Study*

What is the Learning?



Everybody has FOD



Interdependency with Wildlife, Habitat Management and all Safety management practice—Drones, Avian



Effective Asset Monitoring can prevent pavement being future FOD



FOD management plans will mitigate FOD during maintenance and construction



FOD isn't just rubbish



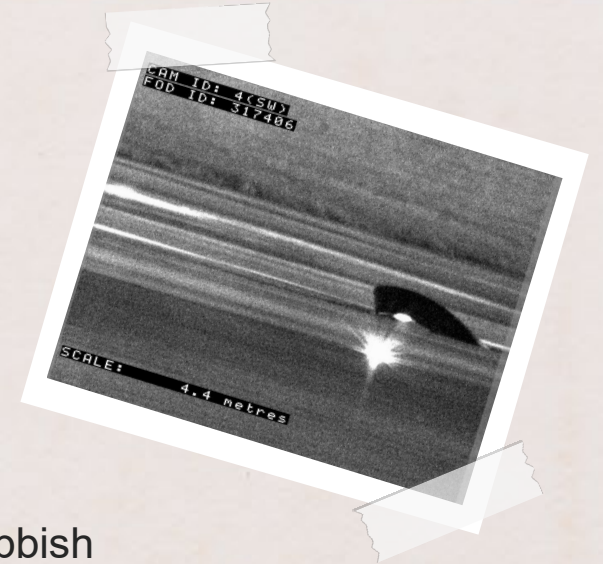
Technology will enhance (not replace) capability and FOD programme



Focus on continuous improvement with Data and Process is essential.



Man or machine - Complacency with any practices, siloed decisions will lead to **failure!**



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Making every journey better

