

Paint a Picture with Data



Who will this inform?

Commercially-Driven Dashboard informs business teams

Regulatory-Minded Dashboard informs environmental compliance teams



Visualizations help

Identify trends
Spot outliers
Ask the right follow-up questions

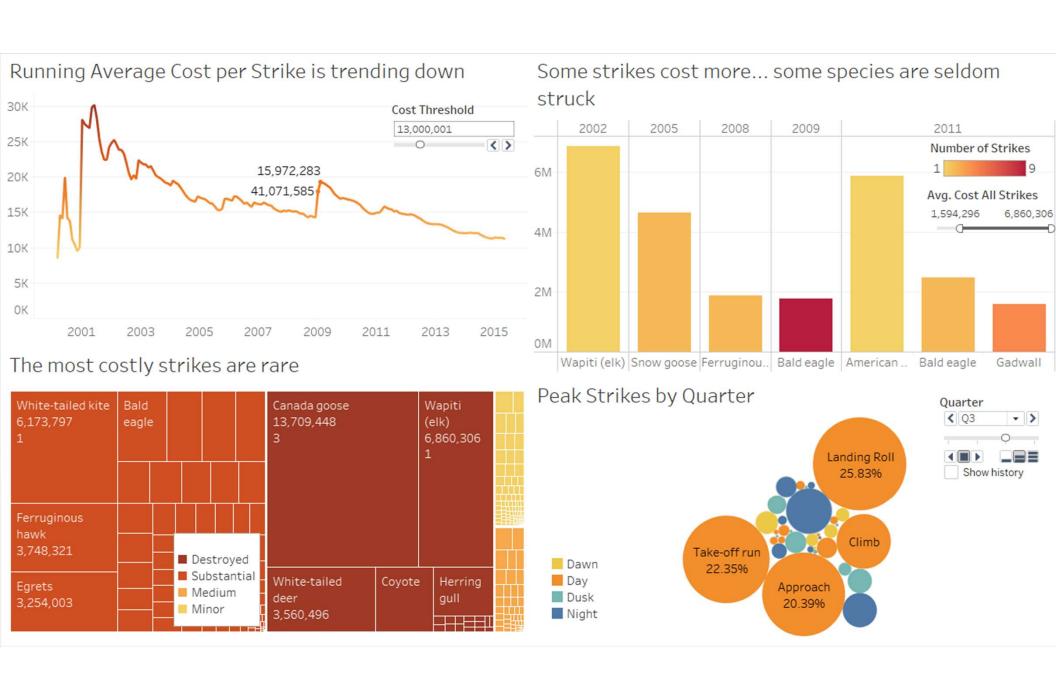


No BI without actions

May need to redirect some investigations and analyses
Additional data may be required
Insights drive business decisions and risk mitigation

Commercially-Driven Dashboard





Running Average Cost

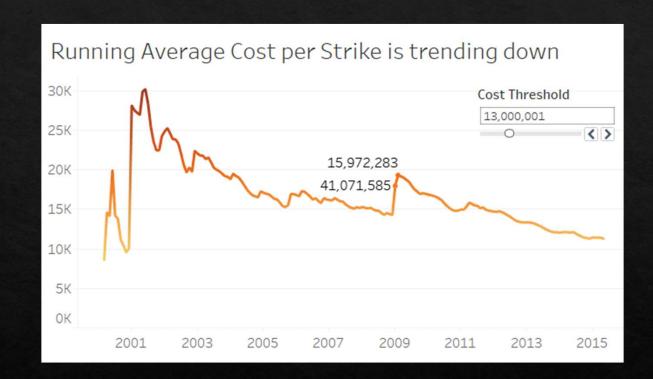
Downward trend

Reporting increased

 Mitigating measures may be paying dividends

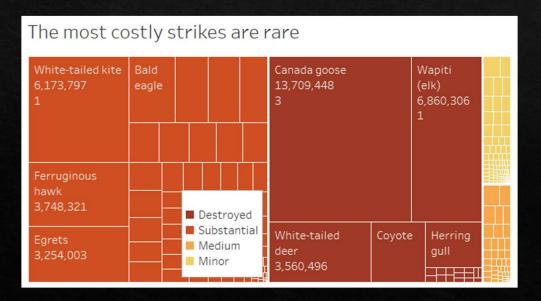
One-time high-consequence events cause spikes:

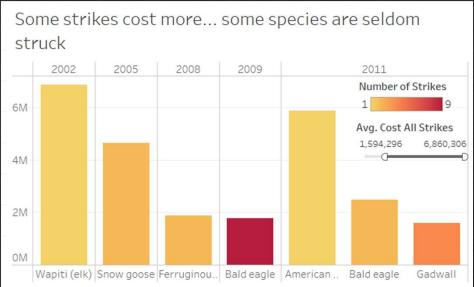
Emergency landing of US
 Airways flight 1549 on the
 Hudson river in January 2009



Cost by Species

Larger species like elk, geese, hawks or eagles may be struck less often but cause more damage per strike.





Smaller species may cause more damage in larger groups (i.e. flocks).

Peak Strikes by Quarter Quarter Landing Roll 25.83% Climb Day Day Dusk Night Approach 20.39%

Strike Timing

Strikes mostly occur:

- during the daytime
- take-off, approach and landing

One notable exception:

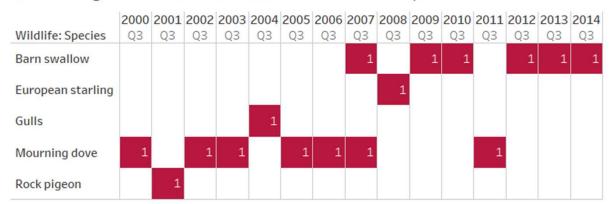
Nighttime approach in Q4 accounted for 17% of strikes. This is consistent with reduced winter daylight hours in northern locales.

Environmentally-Driven Dashboard

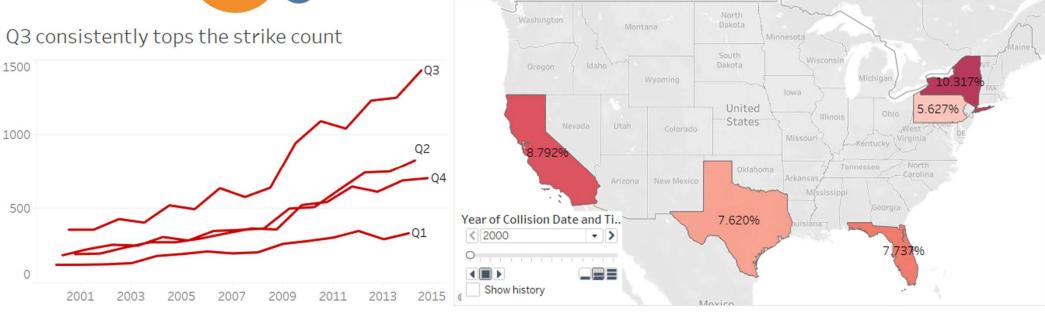




Mourning Dove and Barn Swallow ranked top struck



A Timeline of States with Most Strikes

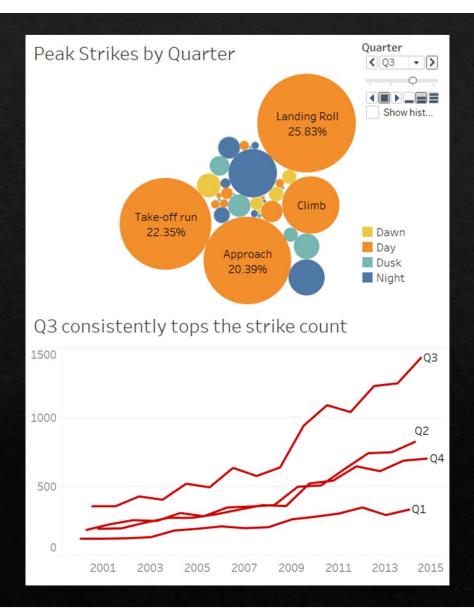


Strike Timing

Most strikes happen in daytime, usually during take-off, approach or landing

Some exceptions in Q1 and Q3 on nighttime approach

Q3 consistently tops the quarterly strike totals in a year

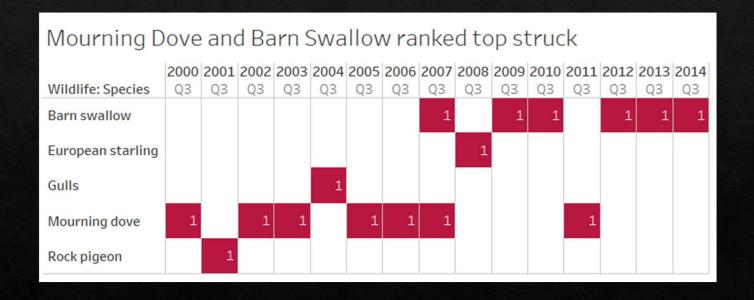


Which Species?

The Mourning dove or Barn Swallow have the highest quarterly strikes each year

The trend changed from Mourning dove to Barn Swallow around 2007

Could there be migratory behaviour changes?



A Timeline of States with Most Strikes North Dakota Minnesota South Dakota Minnesota Wyoming Iowa Illinois Ohio 5.62796 Nevada Utah Colorado States Missouri Kentucky (Irginia De Arizona New Mexico Oklahoma Arkansas Mississippi Georgia 7,73796 Year of Collision Date and Ti... Show history

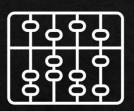
Hotspots

Strikes mostly occur in the same four states

- California
- New York
- Texas
- Florida

The fifth state shifts from New England region to further interior

Next Steps



Destination State data

Commercial and environmental efforts are correctly directed when locales reflect where strikes occur

Let's Get Granular

Are highly-struck species driving costs or are low-count high-consequence strikes the big drivers?

What/When/Where

Environmental Compliance could probe whether Q3 high-strike species are in the same locales year over year

Dashboards tell a story...



Often open-ended as more investigation and different perspectives will drive new insights

It must target an audience, or may appeal to no one

An intersection may appear between groups with differing, though not opposing goals