



Trafi

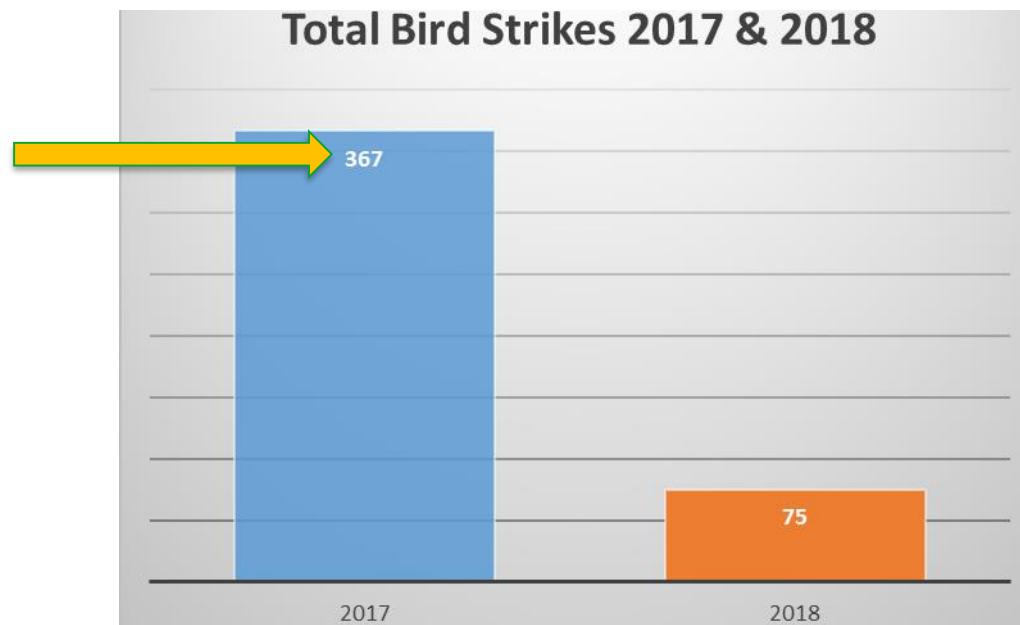
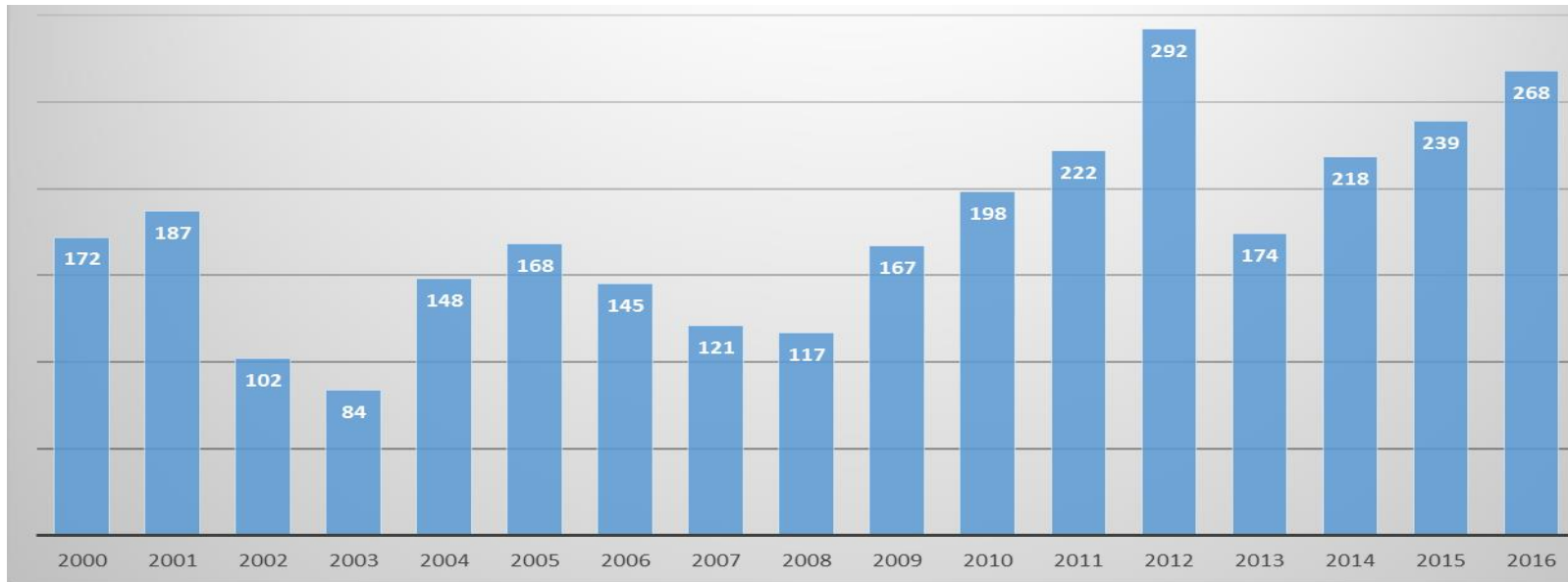
Liikenteen turvallisuusvirasto

NBSAG 2018

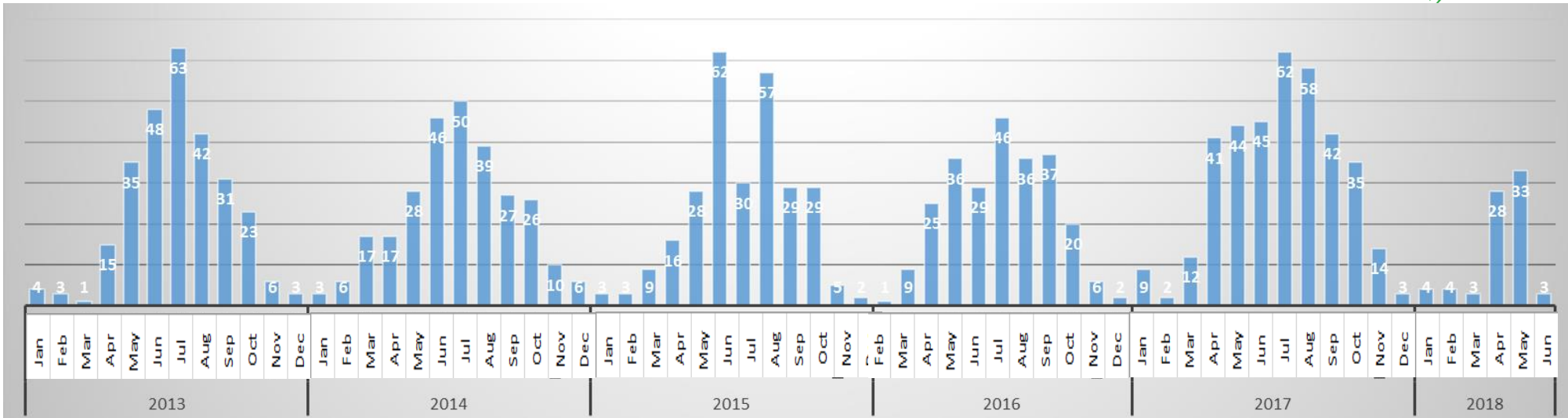
Jukka-Pekka Nikolajeff

*Vastuullinen liikenne.
Rohkeasti yhdessä.*

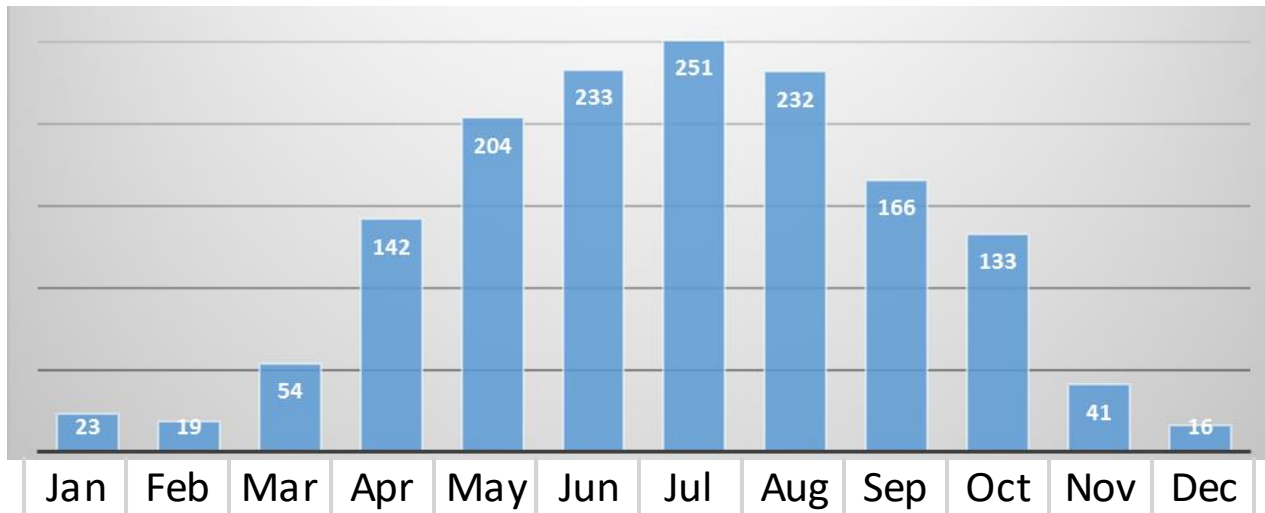
Annual Birdstrike statistics 2000 - 2016



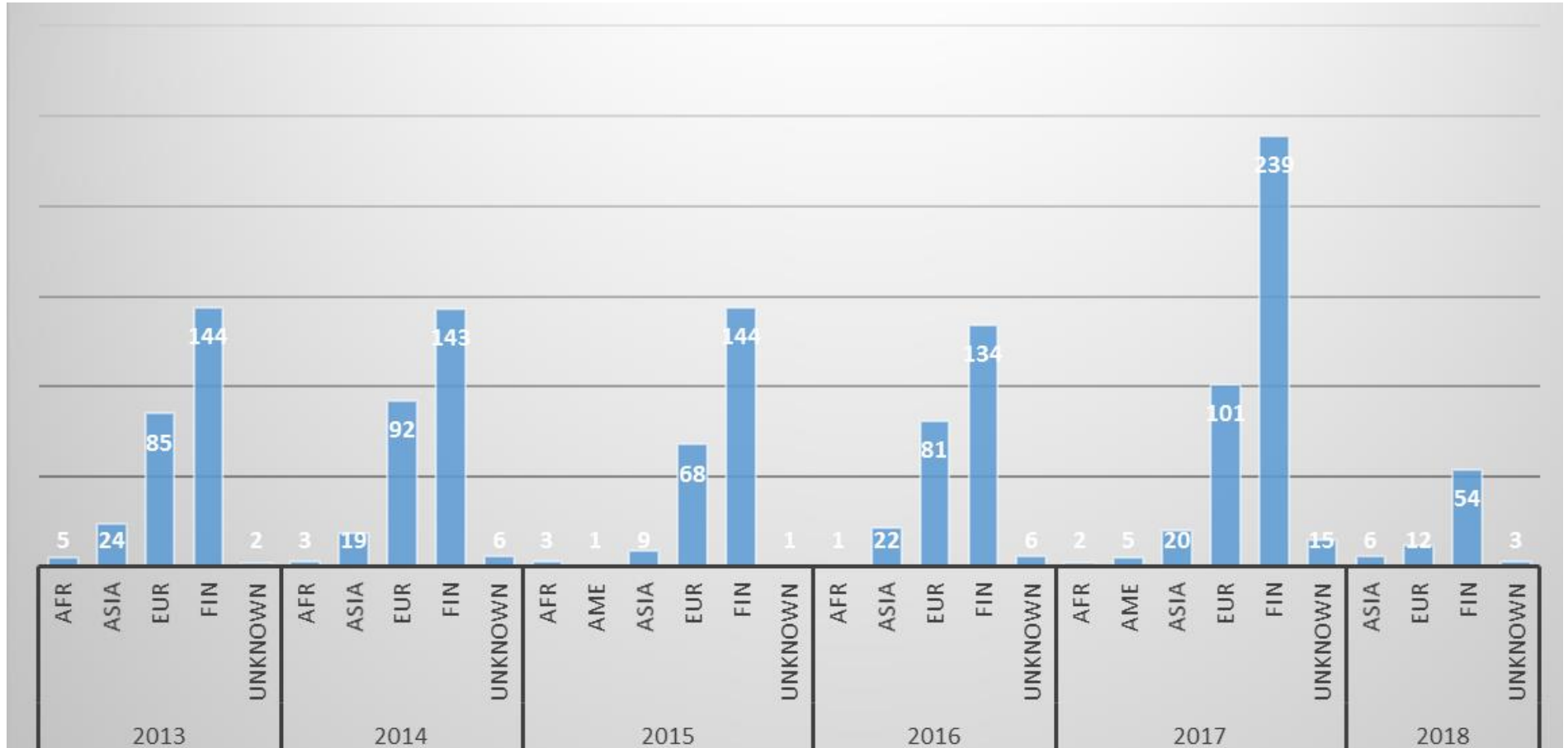
Bird Strikes by Month



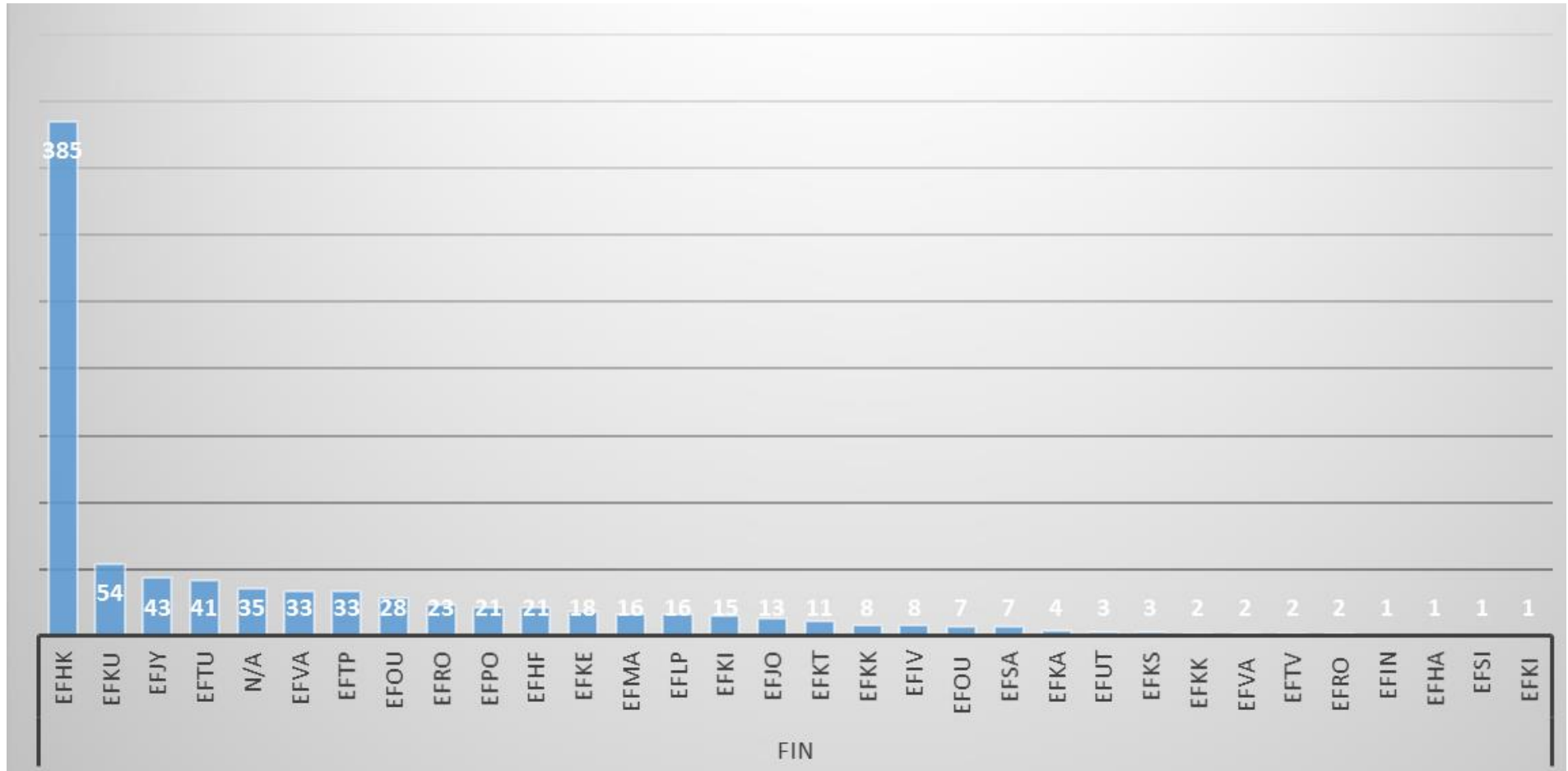
And all time monthly distribution:



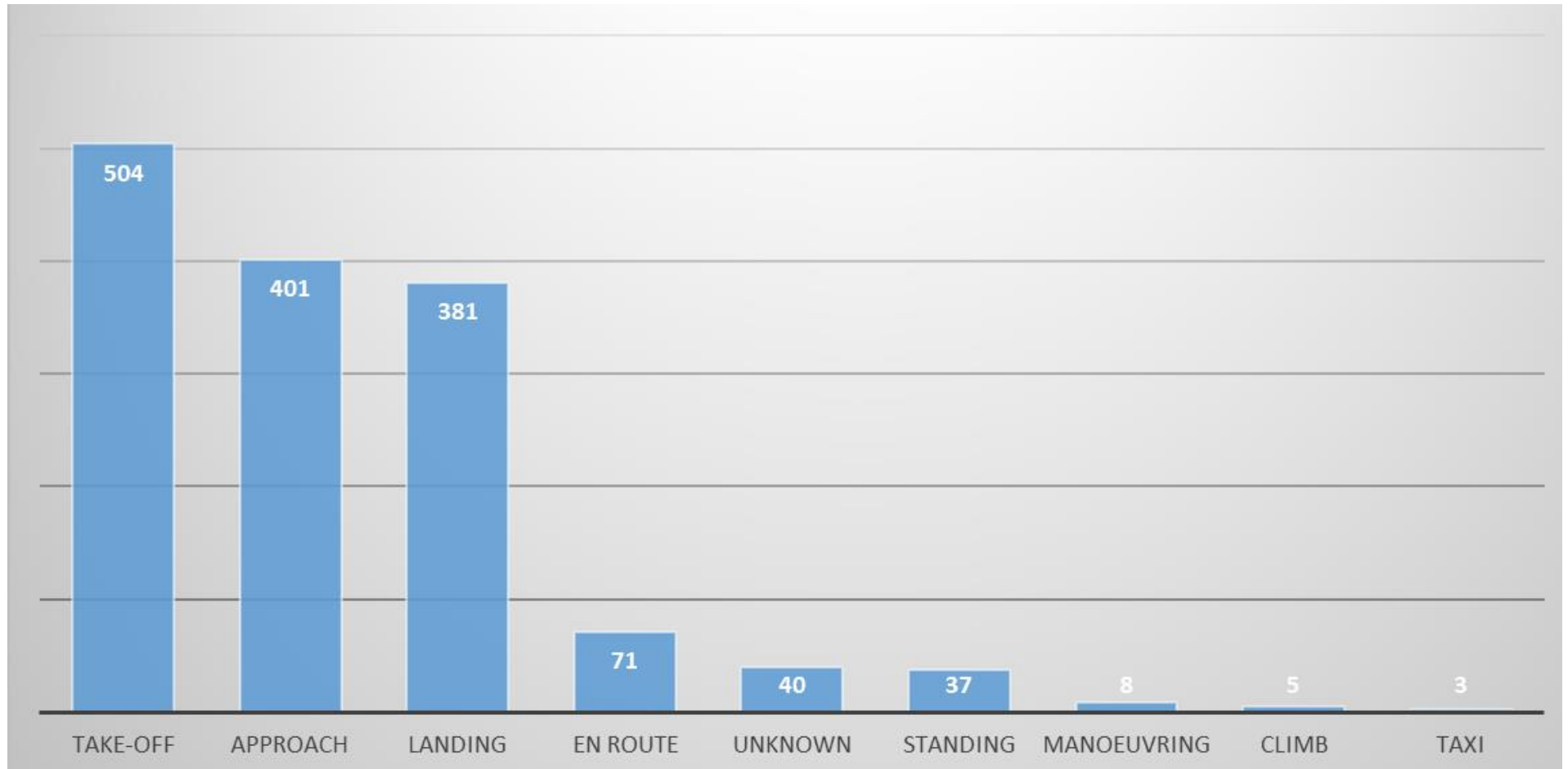
Birdstrikes by area of operation



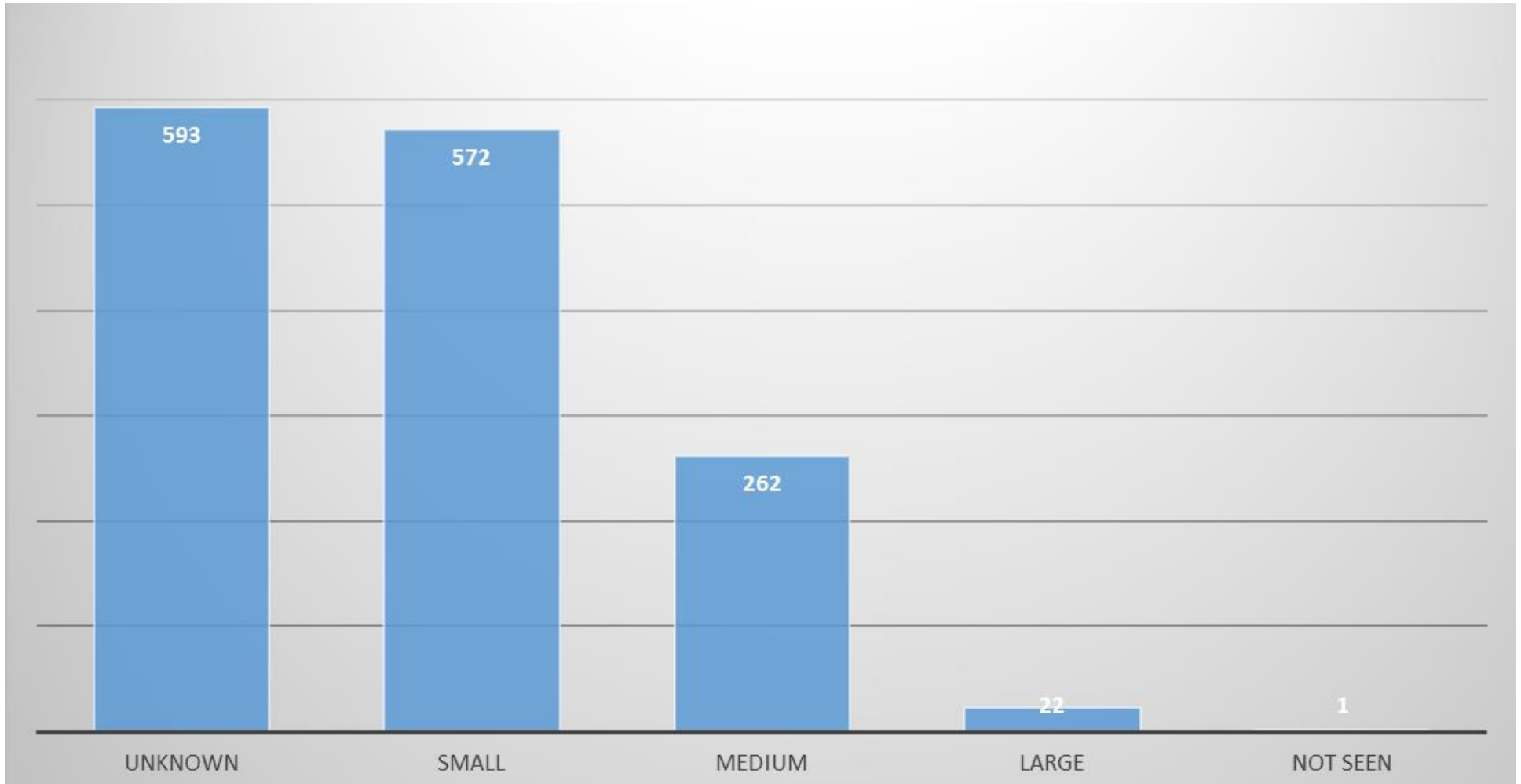
By APT (Finland) (2013 – 2018)



By Phase of the flight

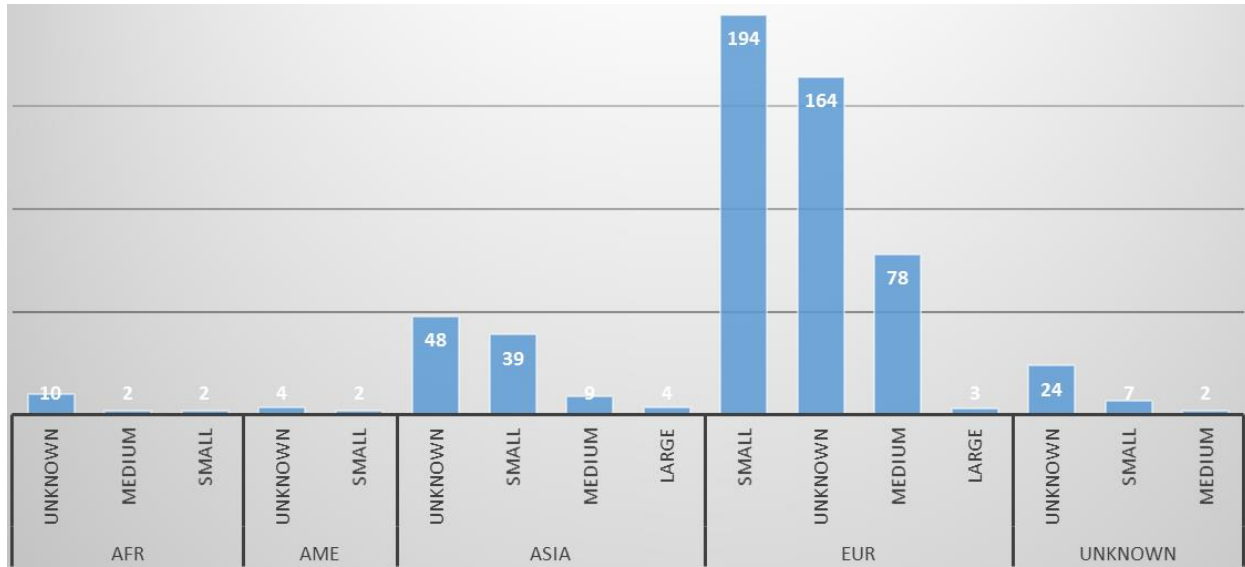


By Bird Size - all

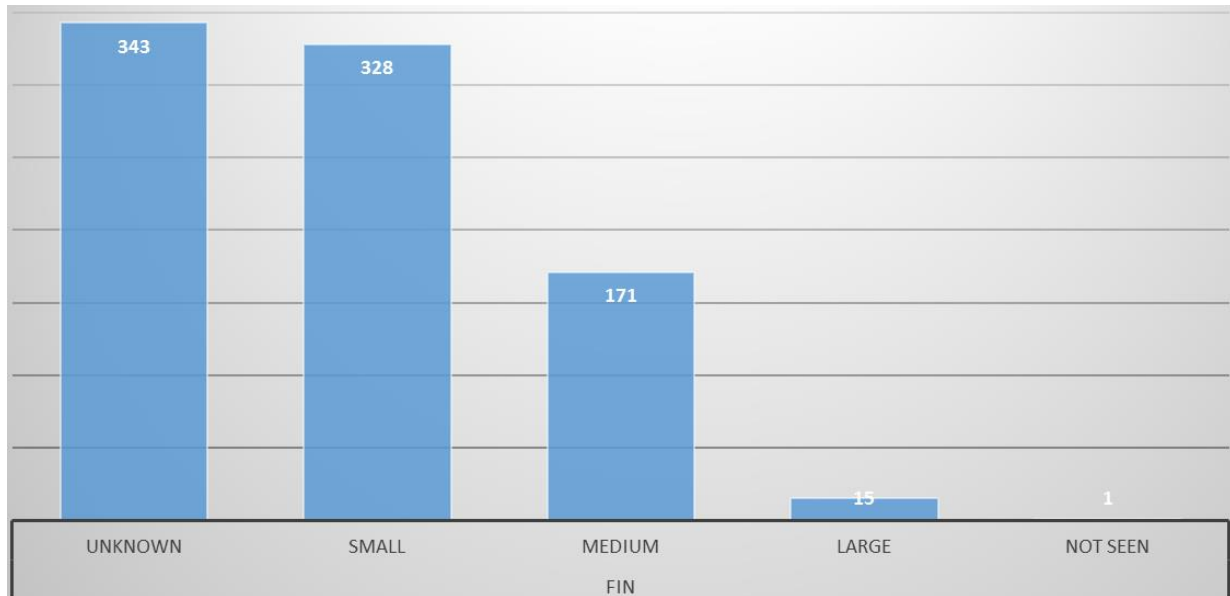


By Bird Size

Other Areas:



Finland:



Highests costs caused by birdstrike, 2016-2018



Selected the costs exeeding 5000€ in CAT operations

2016

DURING TAKE-OFF ROLL BIRD STRIKE ON ENGINE #2	60 000,00 €
BENDED FANBLADES FOUND	24 850,00 €
BIRD STRIKE DURING LANDING ROLL	5 350,00 €

2017

BIRD STRIKE TO ENG NO. 1	135 918,00 €
BIRDSTRIKE TO ENG#2	78 975,00 €
BIRD STRIKE TO ENG#2	70 450,00 €
BIRD STRIKE DURING ROTATION TO LEFT SIDE	72 625,19 €
BIRDSTRIKE ENG #2	68 646,87 €
BIRD STRIKE	51 846,00 €
BIRD STRIKE ON RH SIDE UPPER PITOT TUBE	35 726,27 €
BIRD STRIKE ON RADOME	37 750,00 €
BIRD STRIKE	25 000,00 €
BIRD STRIKE TO F/O PITOT TUBE	24 659,00 €
BIRD STRIKE	10 000,00 €
BIRD STRIKE	5 560,00 €

2018

BIRD STRIKE	73 400,00 €
BIRD STRIKE TO PROP	11 440,00 €

The costs of inspecting Birdstrikes



Each birdstrike requires an inspection, thus causing costs.

Some of the CAT operators has set a fixed price for each inspection, but the others may only record 0€.

-In this example, the fixed price for a birdstrike inspection is set at 350€/inspection.

-During the time frame 2016-2018 a total of 324 inspections were done

The total costs of only inspecting the birdstrikes was as high as 113400€

- Including visual-/ walk around type inspections.

- Excluding all detailed inspections, as boroscope-, NDT- etc., which will create a price tag based on manhours.

Operational delays and cancelled flights



The direct costs of the operational delays or flight cancellations are classified sensitive by the operators.

Depending of the turn around times, some of the birdstrikes may cause operational delays, or in the worst cases a flight to be cancelled.

In the time frame 2016-2018, the example operator has informed 41 cases when a flight has been delayed .

- The duration of the delay at shortest was 2 minutes all the way to more than 8 hours.

The same operator informed that 5 flights were cancelled due a birdstrike damage.



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