

Logan JONES – Runway Safety Specialist 20 November 2017



### A statistical Analysis of Commercial Aviation Accidents 1958-2016



13 aircraft

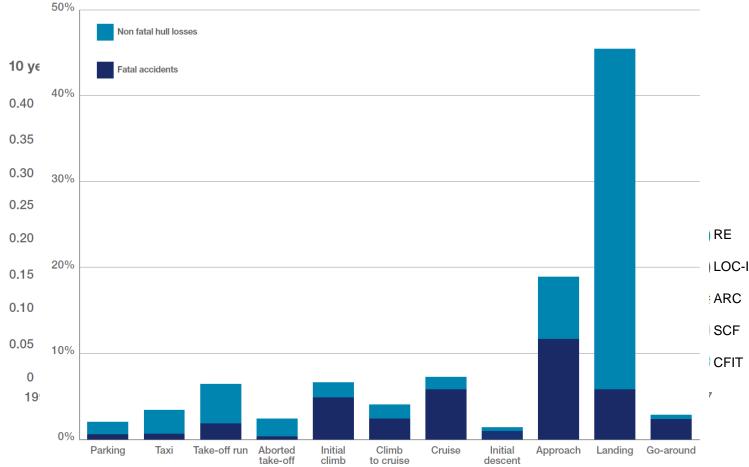






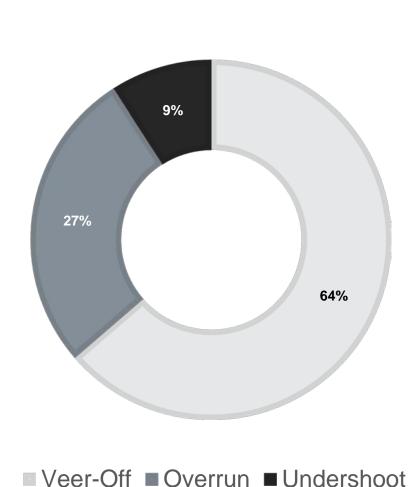


#### Accidents by flight phase as a percentage of all accidents 1997-2016



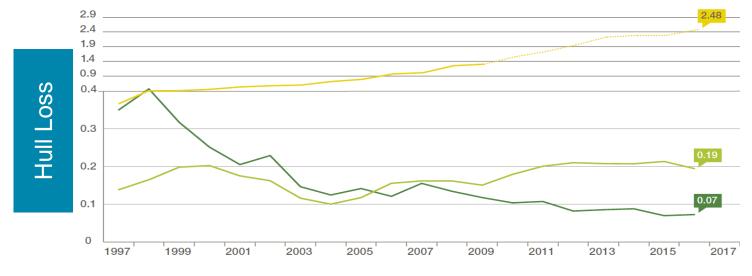


#### A statistical Analysis of Commercial Aviation Accidents 1958-2016



0.3 Fatal 0.2

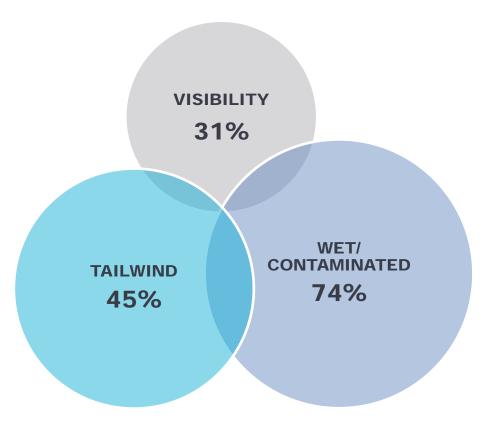
10 year moving average Runway Excursion rate by aircraft generation per million flights



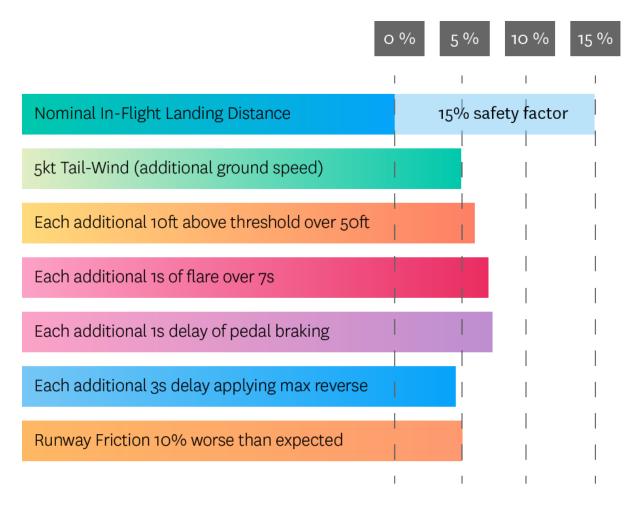
## Focus on Runway Overruns

#### Reported events on Airbus aircraft since 2005

- Average of 3 events per year
- 80% of events with weather as contributor



#### Every deviation counts in a landing distance.

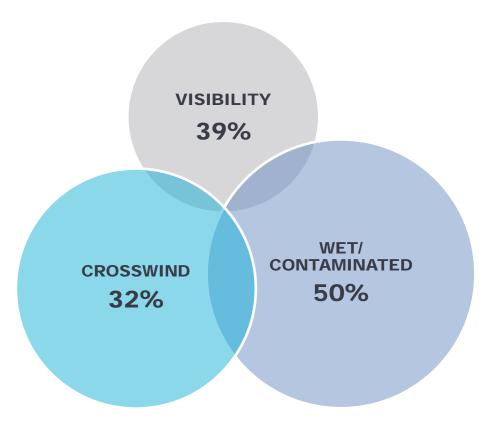




## Focus on Runway Veer-Offs

#### Reported events on Airbus aircraft since 2005

- Average of 7 events per year
- 75% of events with weather as contributor



#### **High CROSSWIND**

- Know the AFM limits and
- Reduced limits recommended if runway wet or contaminated



#### **Low Visibility**

- Loss of visual contact with runway or approach lights, below minima
  - → Go Around

## **Brief combinations of weather hazards**

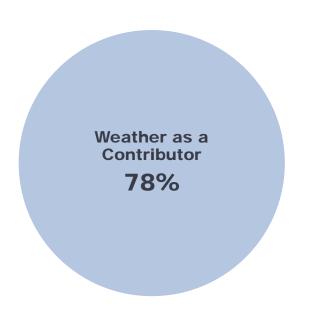
**Use Correct technique** 



#### Focus on Undershoots

#### Reported events on Airbus aircraft since 2005

- Average less than 1 event per year
- 7 events with weather identified as contributor:
  - Wind shear, Downburst, Thunderstorm
  - Fog, Mist, Heavy rain, Drifting Snow
- Majority of events were non precision approaches



SOP and training - Respect the minima...keep visual at or below minimum...if not go around



# Aircraft Guidance - xLS Landing System concept

- Common procedures and symbology for almost all types of approach
- ILS « look alike » guidance for Non Precision Approach
- Precision approach capability when no ILS



Thank you