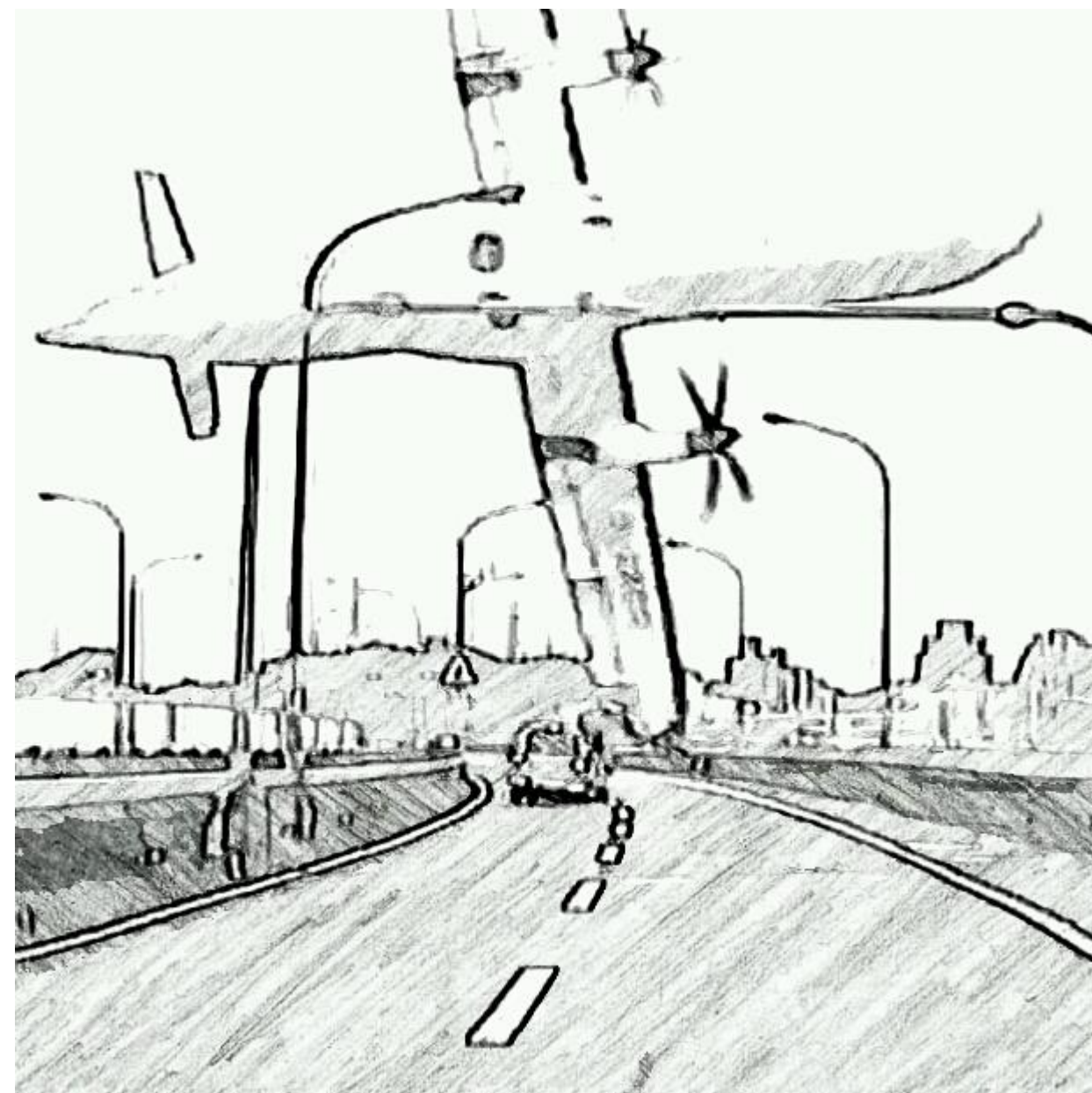


Enhancing Rotor and Transmission Safety: Critical Challenges and Potential Opportunities

Andy Evans

6th December 2016

EASA 10th Rotorcraft Symposium

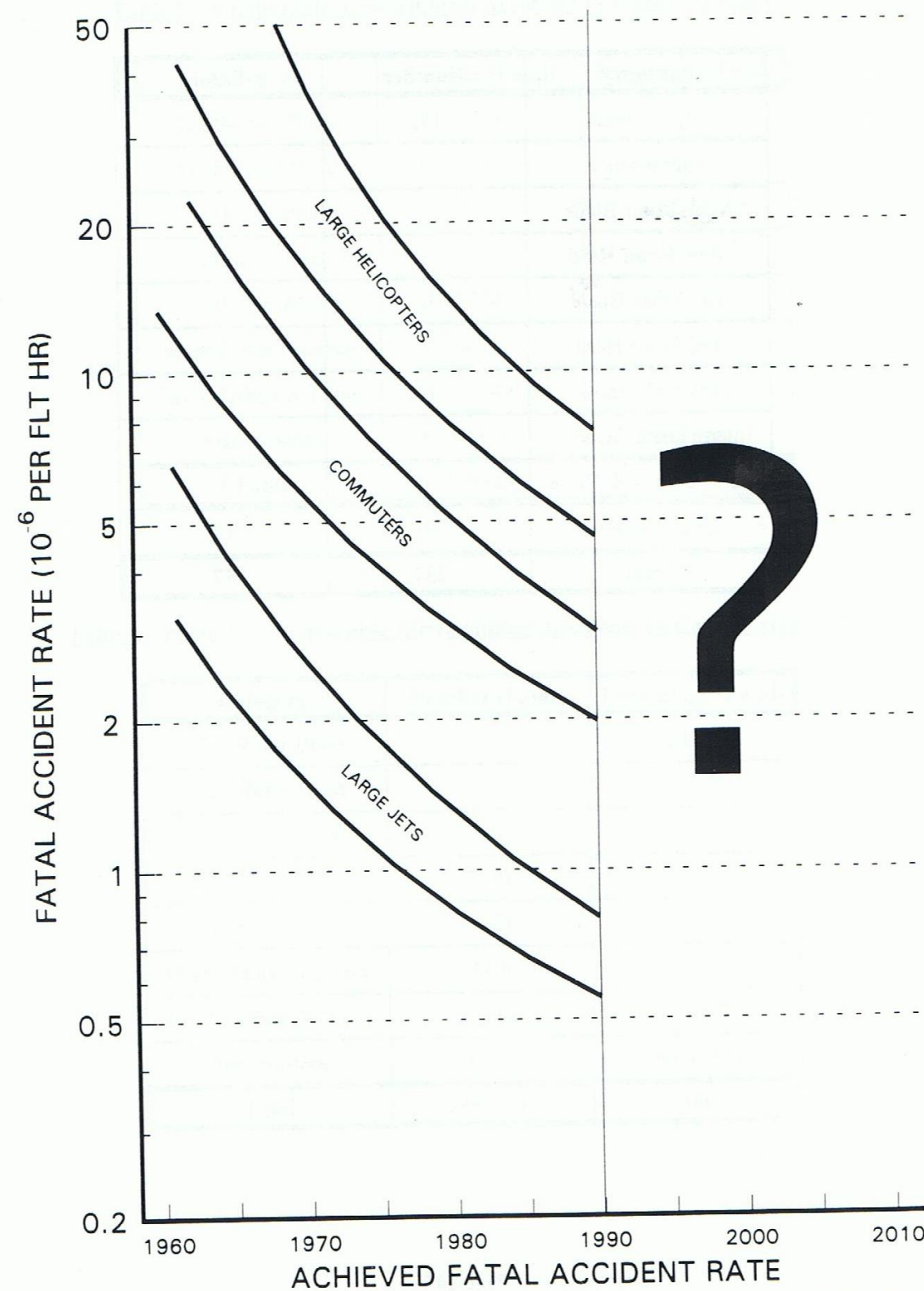


Warning!: Statistics Follow

There are three kinds of lies: lies, damned lies and statistics.

Statistics are like a drunk with a lamppost: used more for support than illumination.

Alan Wilson, WHL, 1995
Airworthiness FAR Data

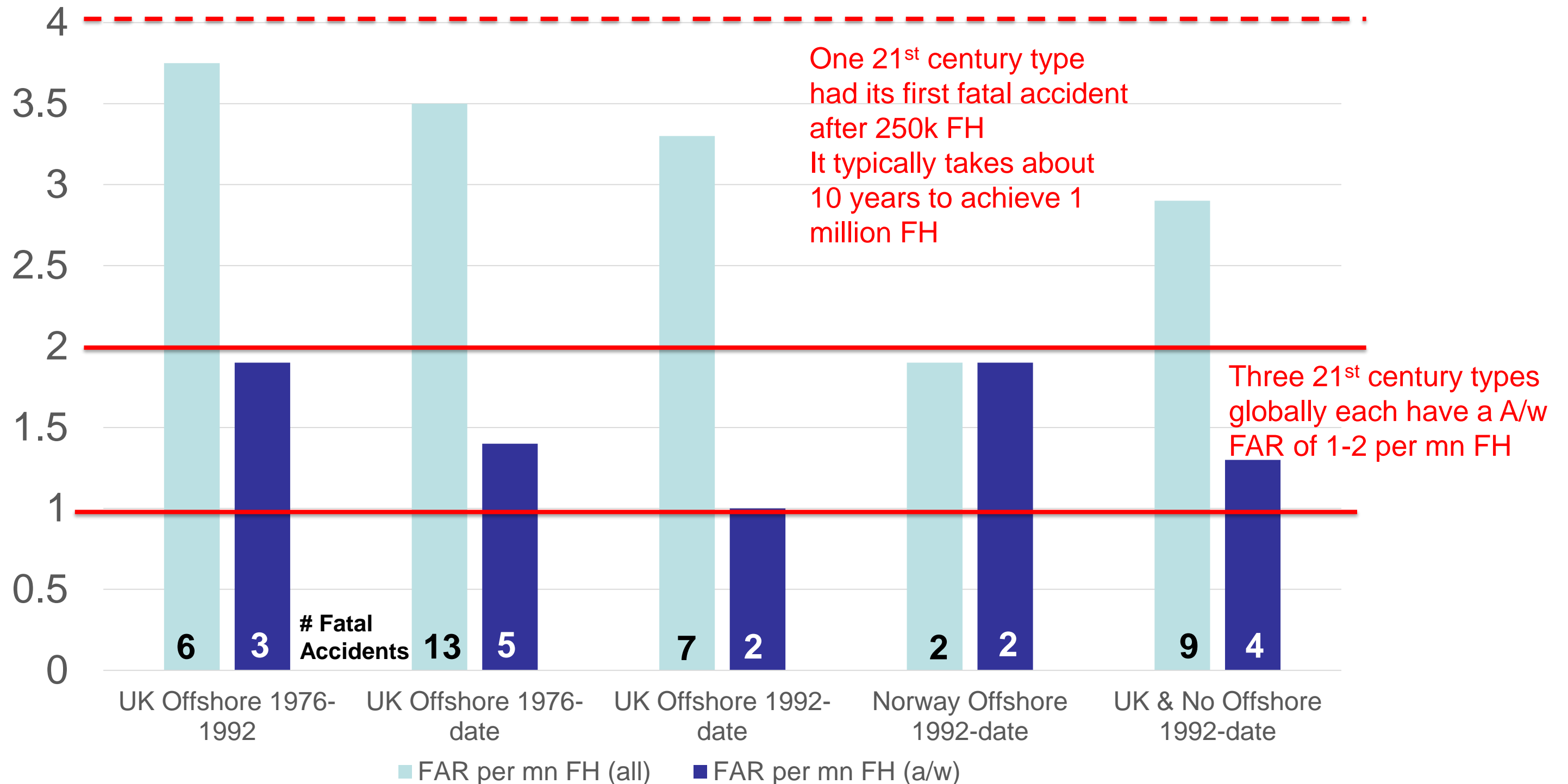


One generation
ago:

Large
helicopters:
~5-8 fatal
airworthiness
accidents per
million hours

~10x airliners

Fatal Accident Rates UK & Norway Offshore



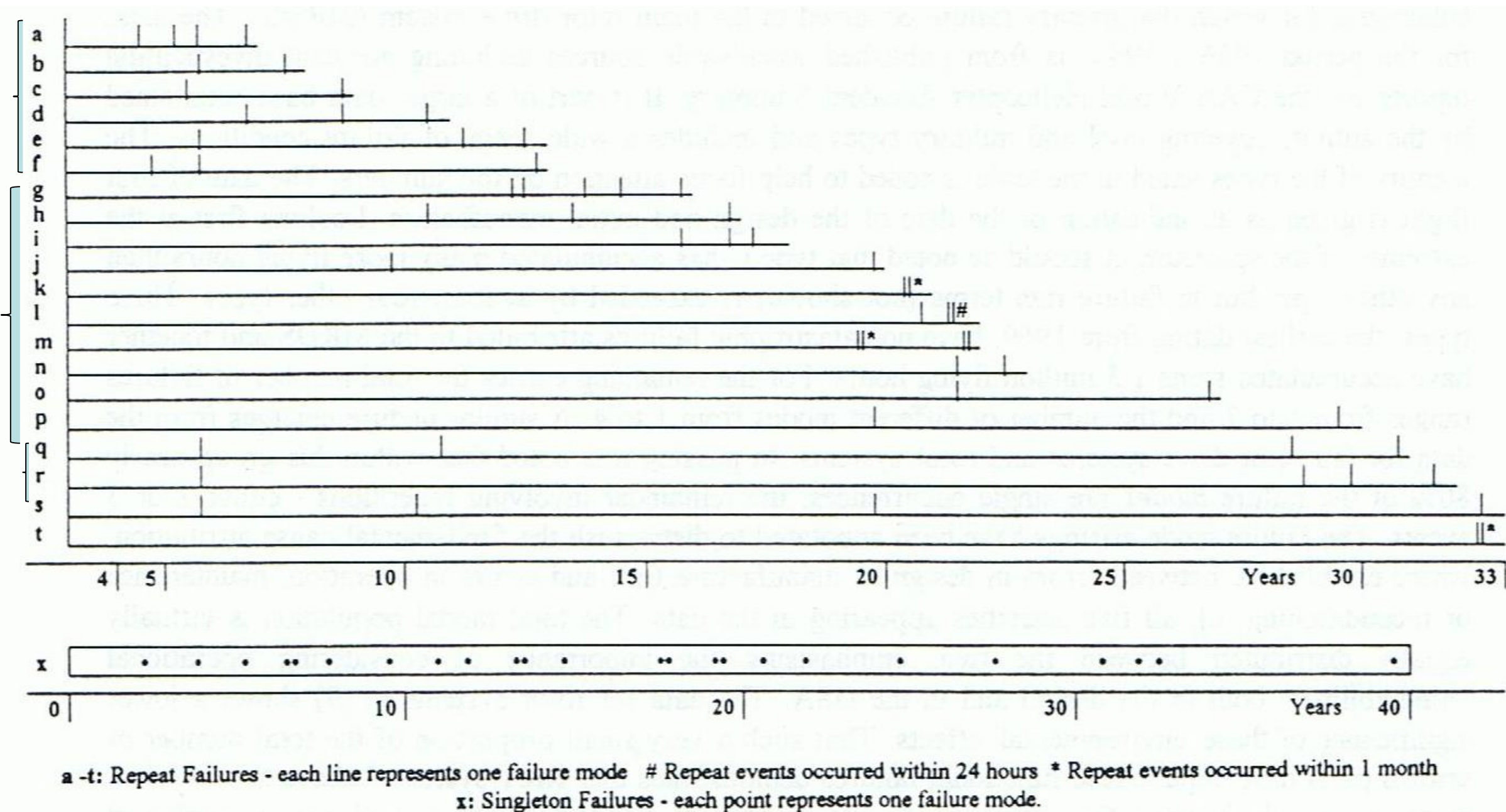
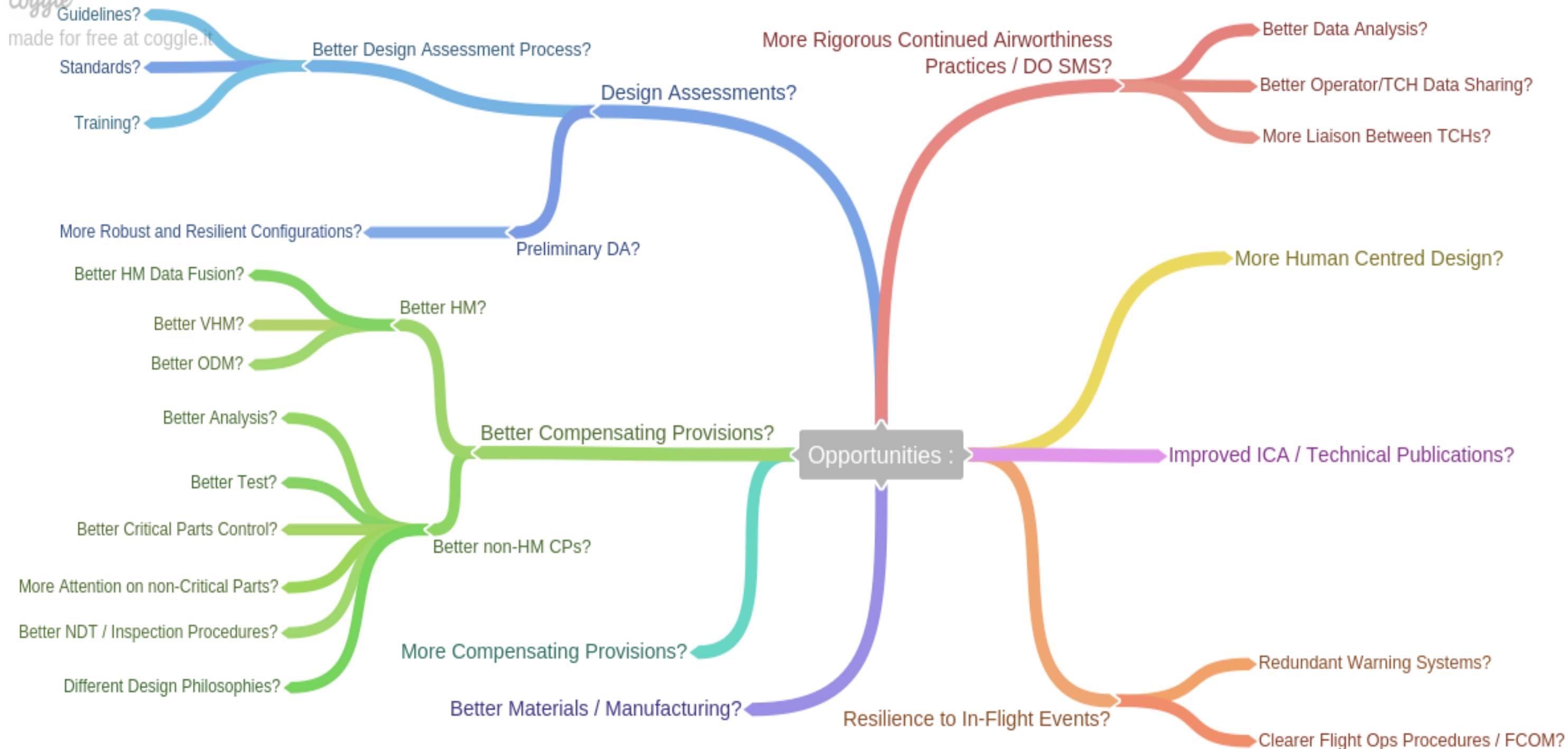


Fig. 1: Distribution of Transmission System Failures with Time
(Civil + Military; World-wide; All failure Conditions; 1958 - 1993)

Derek Astridge, 1995





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