chengdu, 15-16 July 2015 Chengdu, 15-16 July 2015





Airbus fleet worldwide – End May 2015

	Orders	Deliveries	
A380 Family	317	159	A380 A390AIRBUS
A340 Family	378	378	ST. CONTRACTOR OF THE PARTY OF
A350 Family	780	2	2000 MACHINEUS
A330 Family	1401	1182	TO SHAMARKU
A300/A310 Family	816	816	DO MAIABUR
A320 Family	11688	6544	



Airbus Fleet in Mainland China - End of March 2015

	In Operations	To be delivered Until 2020	
A380 Family	5	0	A380 A380 ARBUS
A350 Family	0	20	ASSO MAJNIBUS
A330 Family	150	34	AND SAMADIBUTE **
A300/A310 Family	0	7	A STORE WAS AN
A320 Family	979	685	



Airbus fleet worldwide – End March 2015





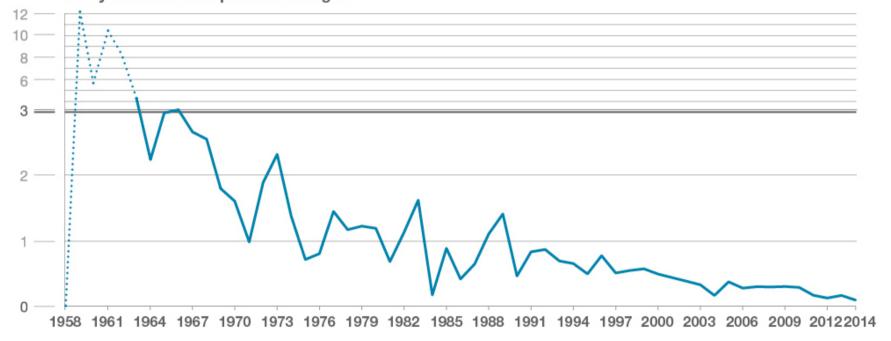
Airbus Fleet in Mainland China—End of March 2015





Safety has significantly improved over the years...

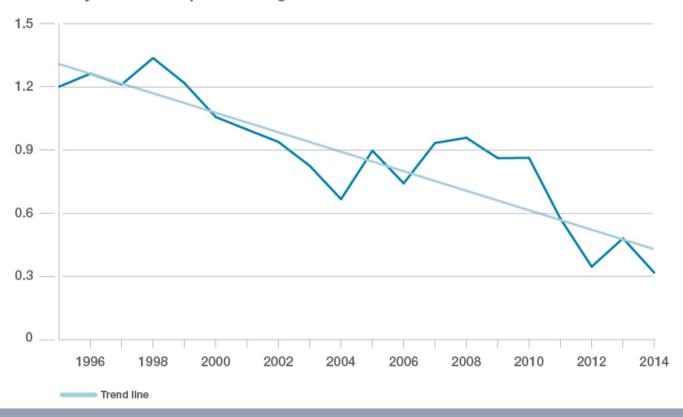
Yearly accident rate per million flights





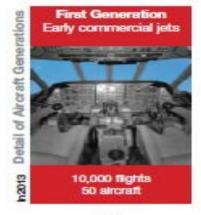
... and continues to do so

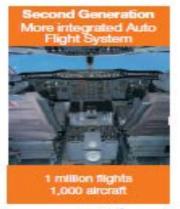
Yearly accident rate per million flights





Significant evolution of aircraft technology









1952

Caravelle, Comet, BAC 111, Trident, VC-10, B707, B720, Convair 880/990, DC-8 1964

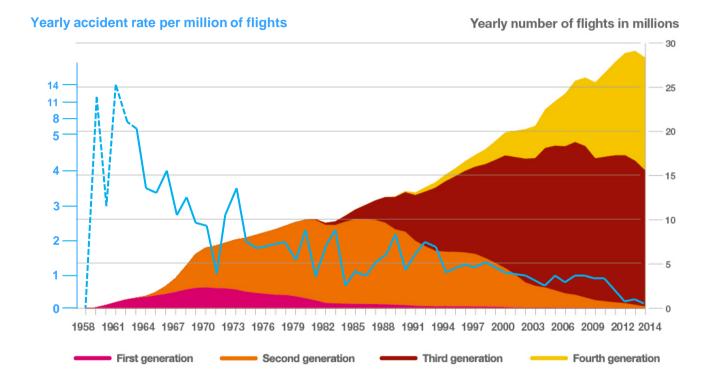
Concorde, A300 (except A300-600), BAE 146, Mercure, B727, B737-100/200, B747-100/SP/200/300, F-28, L-1011, DC-9, DC-10, VFW 614 1980

A300-600, A310, Awro RJ series, B717, B737-300/400/500, B737 NG -600/700/ 800/ 900, B757, B767, B747-400, B747-8, Bombardier CRJ Series, Embraer ERJ Series, 328JET, F-70, F-100, MD-11, MD-80, MD-90 1988

A318/A319/A320/A321, A330, A340-200/300/ 500/ 600, A380, B777, B787, Embraer E Series



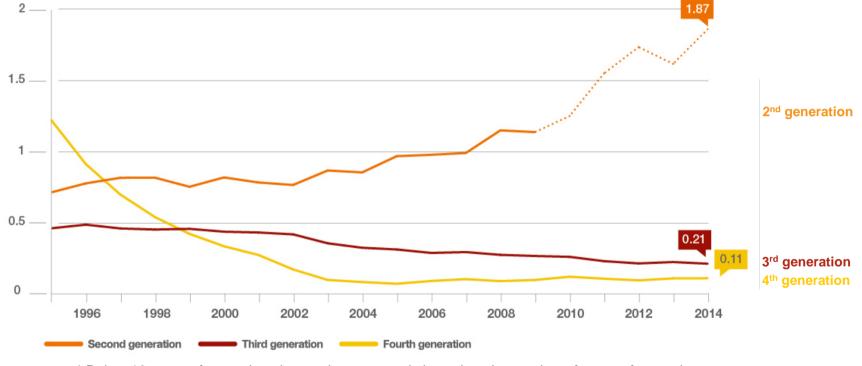
Safety has improved... despite a massive increase in exposure





Aircraft technology makes a difference

10 year moving average accident rate per million flights

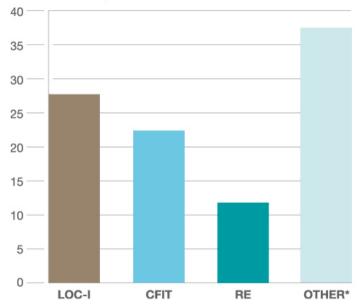


* Below 10 years of operation, the moving average is based on the number of years of operation.



The 3 major accident categories

Percentage of total number of accidents since 1995



*All the accident categories representing less than 10% of the accidents are clustered in the "OTHER" category.

LOC-I: Loss of control in-flight

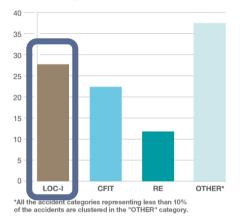
CFIT: Controlled flight into terrain

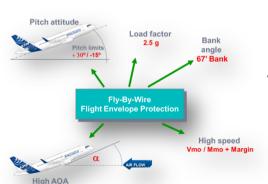
RE: Runway excursion

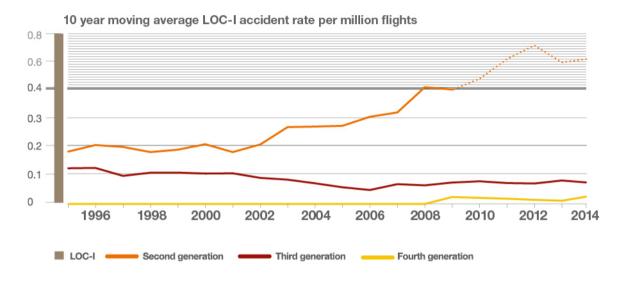


Technology makes a difference







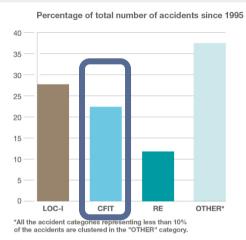


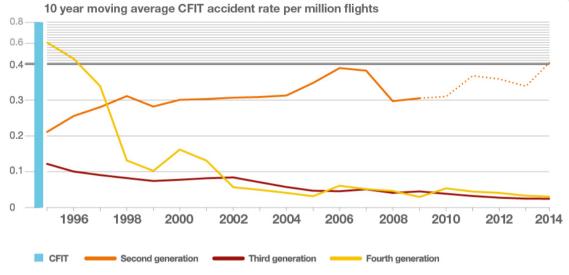
Technology contribution in addressing Loss Of Control type of accident:

✓ Fly By Wire a/c / Flight Envelope Protection (applicable only to 4th generation of a/c)



Technology makes a difference





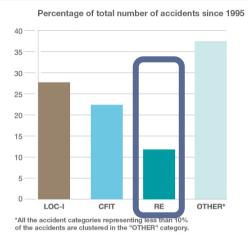


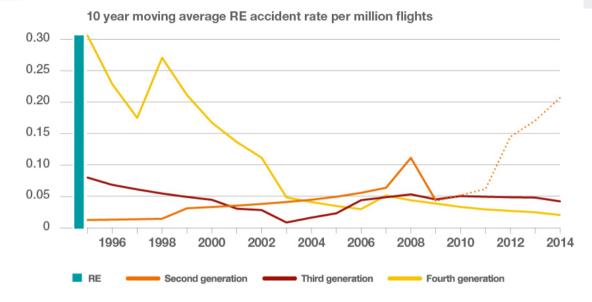
Technology contribution in addressing Controlled Flight Into Terrain:

 ✓ combination of TAWS, Improved Navigation performance, Glass Cockpit/FMS equipped a/c (mainly 3rd and 4th generations of a/c)



Technology makes a difference







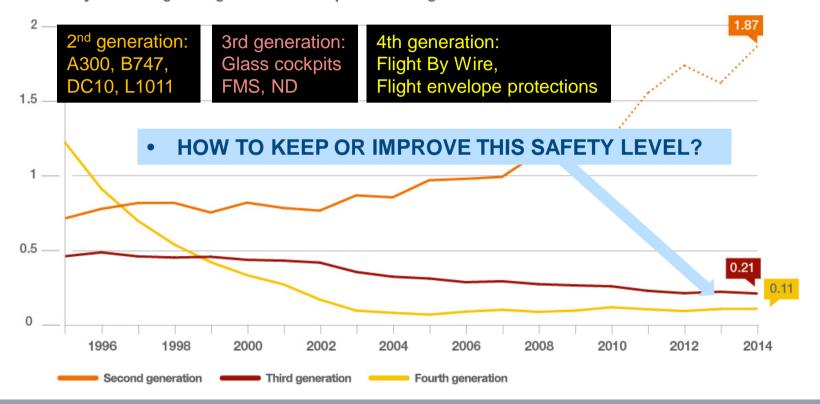
Emerging technology contribution in addressing Runway Excursion:

☑ ROPS or equivalent energy/landing performance based system



Safety evolution with aircraft generations

10 year moving average accident rate per million flights





Training evolution

Yes, technology brings safety benefit, and will continue to do so.

But is-it enough considering pilots are less & less exposed to manual flying conditions?

- RVSM rules
- Increased reliability

The pace of training evolution (from ab-initio to recurrent) must catch-up with the today environment.

 We all need to accelerate the pace of training evolution, working together with Industry, Authorities and Operators.

What's next at global level?

Continue to enhance Safety TOGETHER for more anticipation

- SMS, Safety Culture, Safety Strategy
- ➤ Risk Management
- « Big data » identification of trends
 - At individual organisation level
 - At a wider scale
- Continuous implementation of known Lessons Learnt
- Further improving the sharing of Safety information



Sharing

Sharing with ALL levels and with ALL actors

And repeat, repeat & repeat lessons learned



