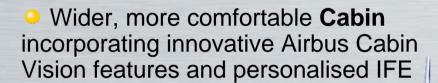


A350 XWB



Aerodynamics for Mach 0.85 cruise with unequalled levels of efficiency

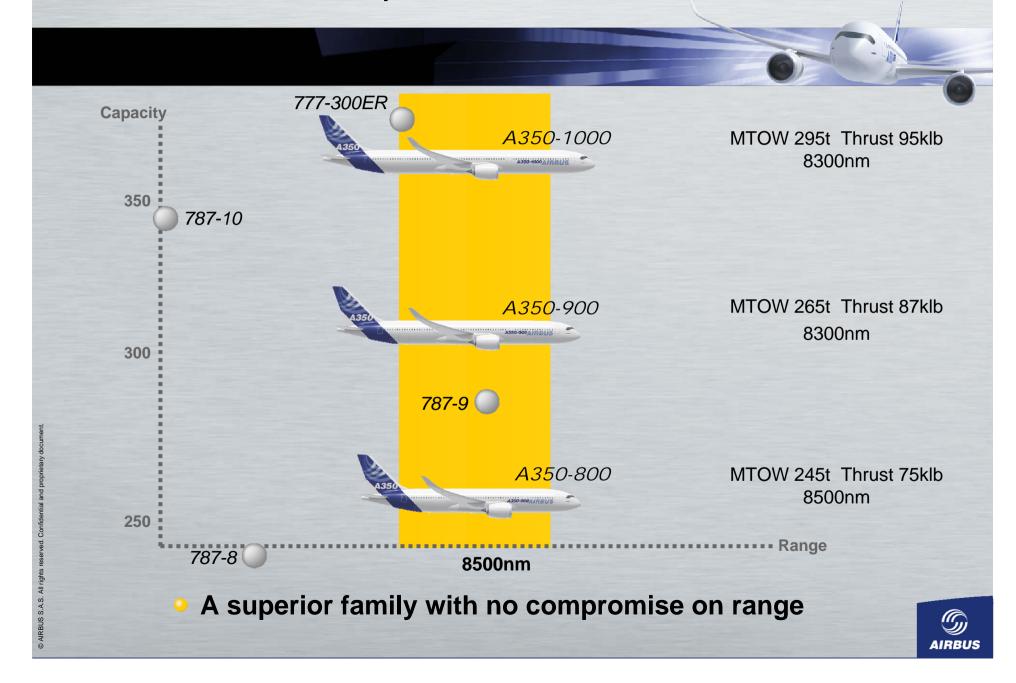


- Light, robust, repairableStructure
- A380 Systems and Cockpit commonality
- Advanced Rolls Royce
 Trent XWB Engines
 delivering best levels of fuel efficiency, maintainability and environmental impact



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A350 XWB – a step ahead of the 787



What is new on the A350 XWB

Compared with the original A350 design, the A350 XWB has

- New cabin cross-section
 - 12 inches wider than the A330
 - Parallel cross-section from door 1 to door 4
 - 2 inch wider windows

- New wing with increased sweep
 - 3° increase in wing sweep (35°)
 - Cruise Mach number increased to 0.85

New engines

- Thrust from 75K to 95K
- 2% SFC improvement
- 5% lower engine maintenance cost

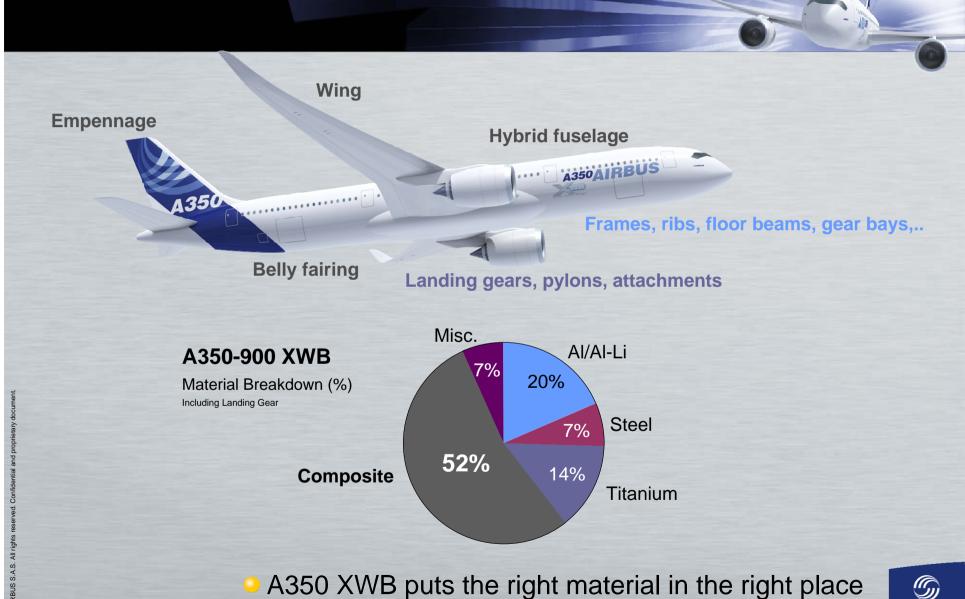
New systems

- Derived from the A380
- 10% lower airframe maintenance
- Airbus Fly-by-wire Pilot commonality



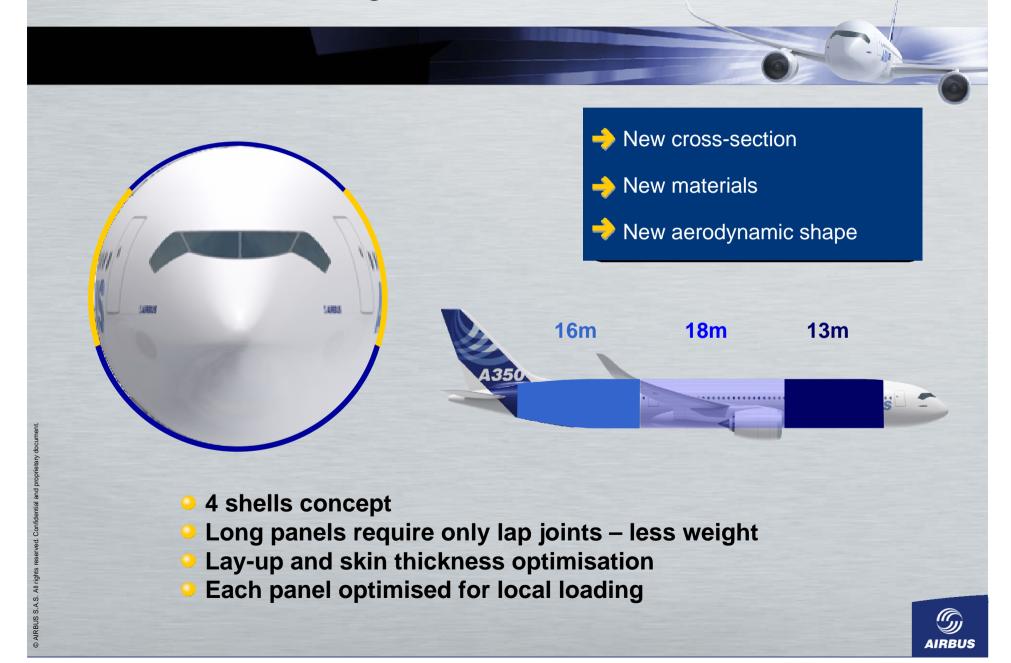
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A350 XWB – Intelligent Airframe





A350 XWB fuselage: efficient use of CFRP



A350 XWB fuselage material choice



- Skin panels, doublers, joints and stringers in CFRP
- Aluminium frames

- Lowest overall weight for
 - Structural performance (4 shells concept)
 - Electrical conduction (metallic network)
 - Crashworthiness (energy absorption by frames)
 - Reparability (panel removal)

Empty weight per seat





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A350 XWB wing design

Relative to A330:

- 3m larger wingspan (64m) (ICAO Category E)
- → 20% more wing area (442m2)
- → 3° sweep increase (35°)

CFRP structure

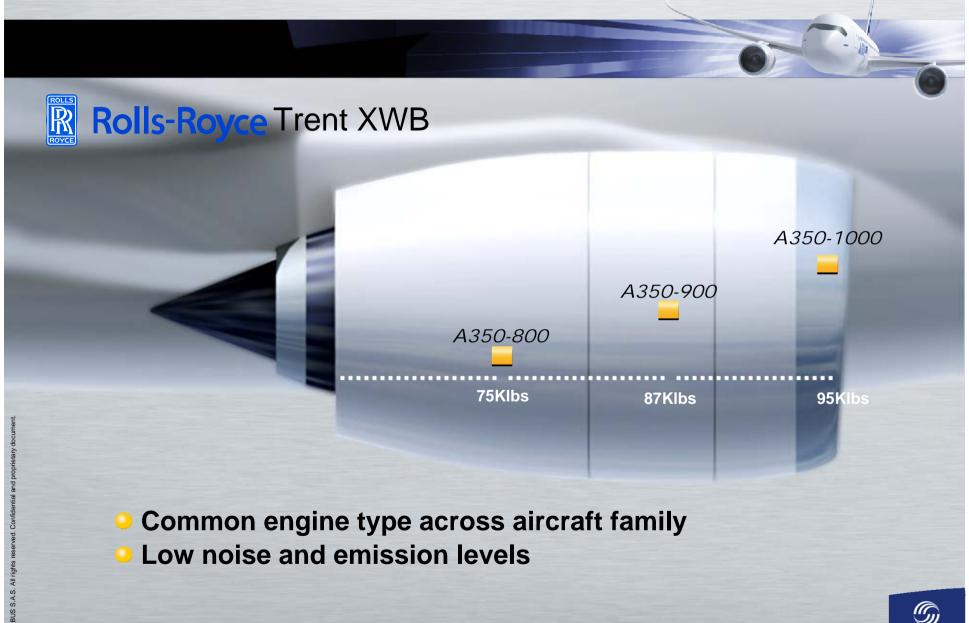
M 0.85 cruise speed

Advanced high lift devices



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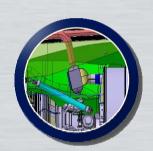
Xtra efficiency – next generation engines





A350 XWB systems

- 2 hydraulic/ 2 electric (2H/2E) flight control architecture
 - Proven in A380 flight-test
- Electro-Pneumatic bleed system
 - More efficient at aircraft level
- 3 tank fuel system with inerting
 - Simplified architecture. No trim tank
- 4 variable frequency electrical generation systems
 - Significant maintenance cost reduction
- A380 Interactive Cockpit Concept with modular server systems
 - + enhanced functionalities
- Double side stay main landing gear
 - Reduced weight and maintenance cost









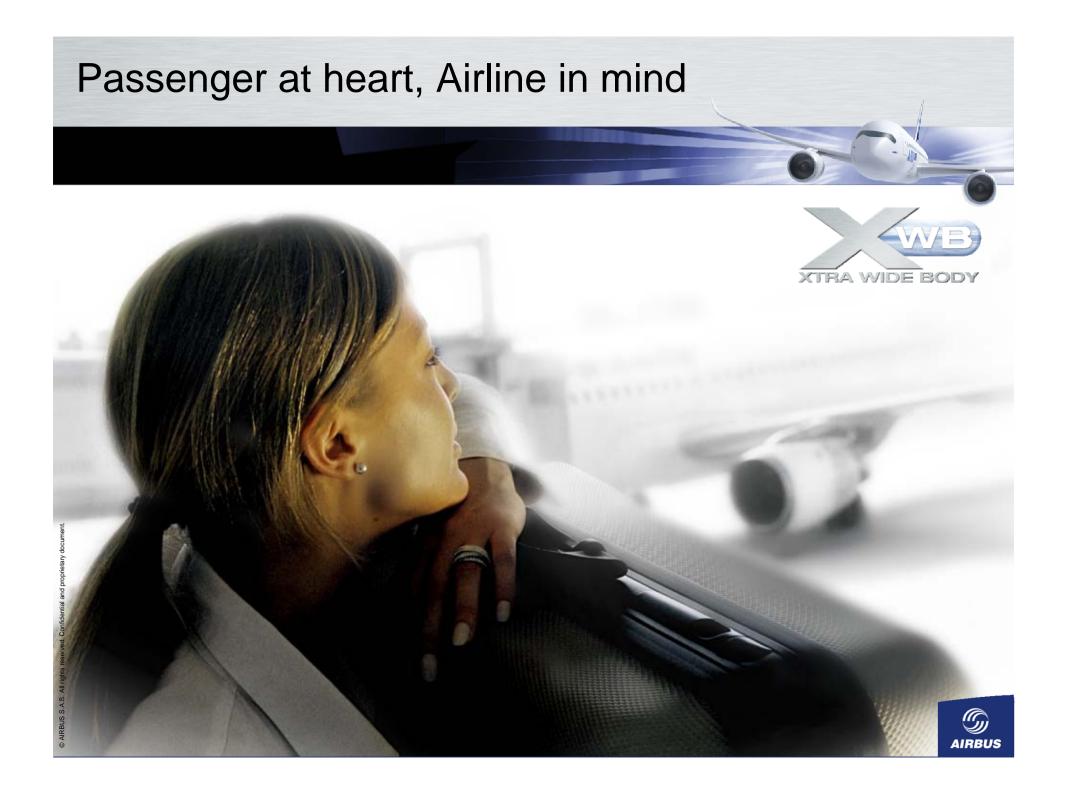
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Respecting the environment



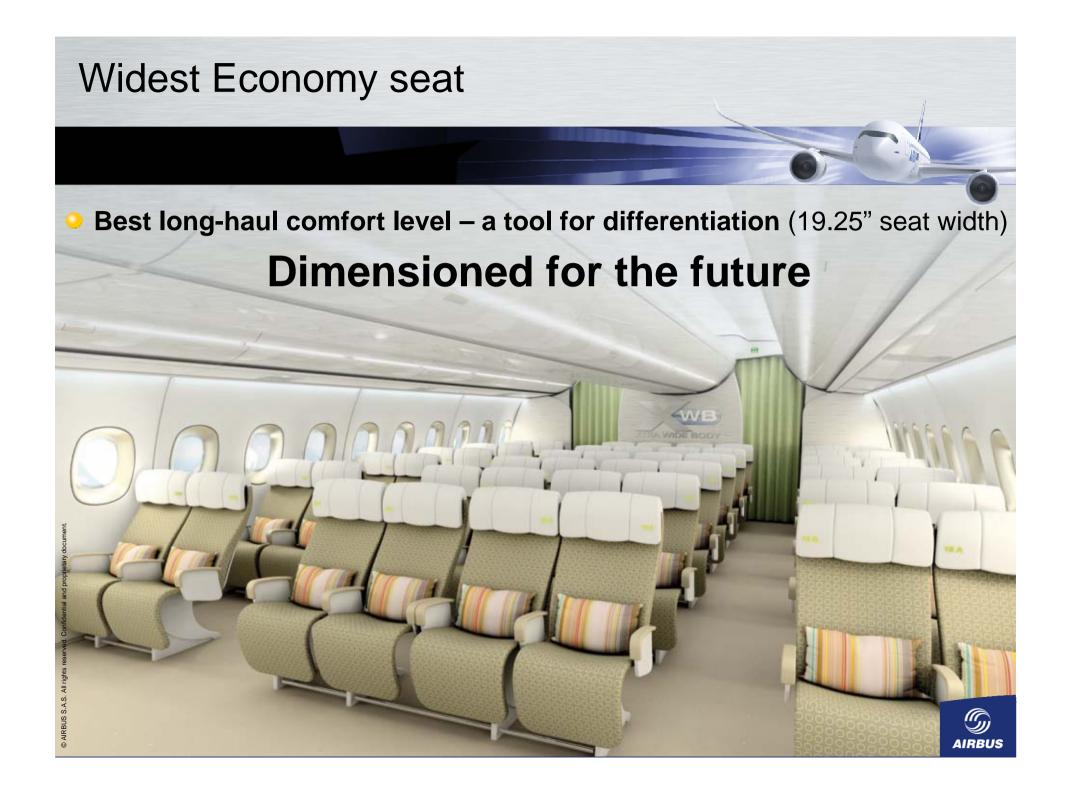






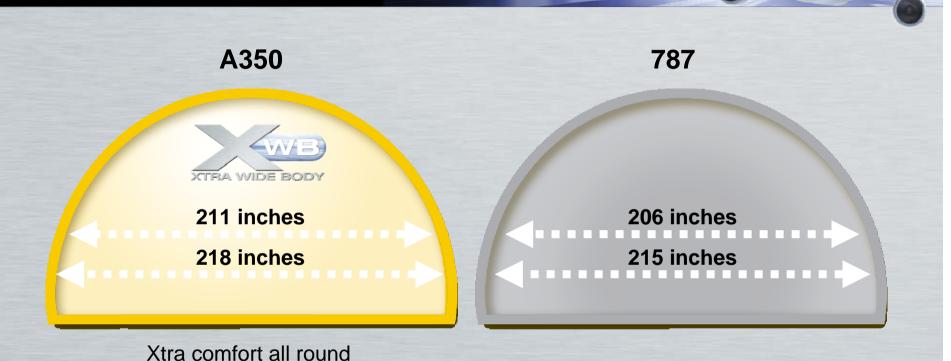
A350 Dimensioned for the future







Dimensioned for the future – Xtra wide



- 5 inches wider at eye level
- 4 inches wider at the shoulder
- 3 inches wider at armrest



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Xtra comfort – a better cabin atmosphere

- Cabin pressure
 Cabin altitude at or below 6000ft.
- Cabin humidity20% humidity level.
- Cabin air distribution
 Flow Management System adapts cabin airflow to passenger load.
 Ceiling and lateral air outlets allow a uniform, draft-free air circulation.
- Cabin noise
 The quietest cabins in the skies.

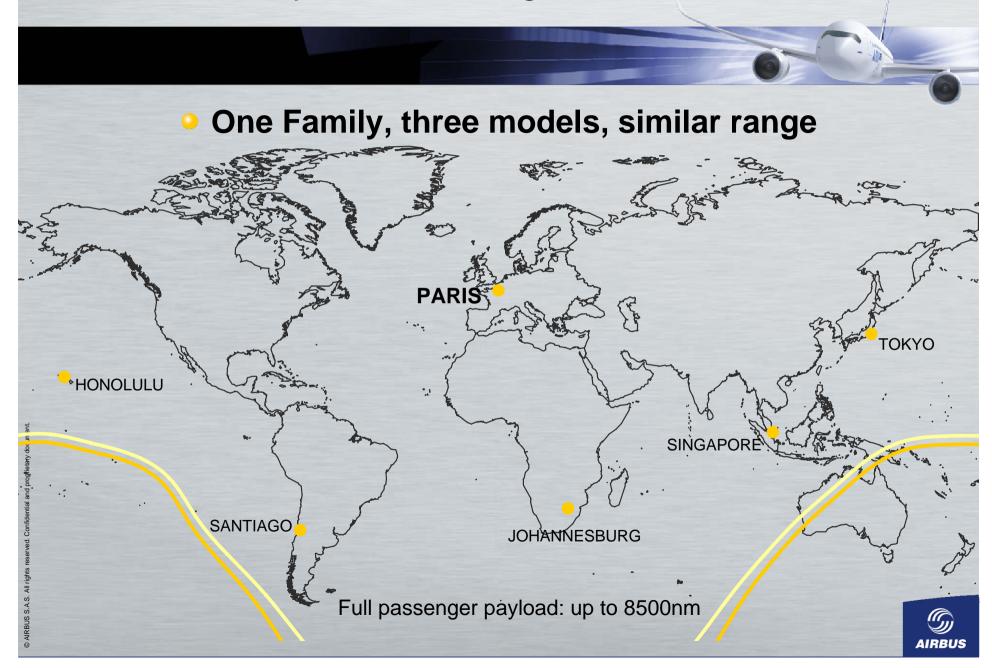






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Extra efficiency – A350 range around Paris



A350 XWB – Xtra efficiency

Seats (3-class)*

Design range

MWE per seat

Block fuel per seat

Cash Operating Cost per seat

Noise Classification at London
Departure
Arrival

A350-800	787-8
270	242
8,500nm	7,900nm
Datum	+2%
Datum	+6%
Datum	+8%
QC 1	QC 1
QC 0.5	QC 0.5



A350 XWB – Xtra efficiency

Seats (3-class)*

Design range

MWE per seat

Block fuel per seat

Cash Operating Cost per seat

Noise Classification at London
Departure
Arrival

A350-900	787-9	777-200ER
314	280	301
8,400nm	8,500nm	7,700nm
Datum	+2%	+16%
Datum	+4%	+30%
Datum	+7%	+25%
QC1	QC1	QC2
QC0.5	QC0.5	QC1



A350 XWB – Xtra efficiency

Seats (3-class) *

Design range

MWE per seat

Block fuel per seat

Cash Operating Cost per seat

Noise Classification at London

Departure

Arrival

A350-1000	777-300ER
350	365
8,300nm	7,800nm
Datum	+14%
Datum	+25%
Datum	+25%
QC2	QC2
QC1	QC1



Programme timing A350-900 A350-800 A350-1000 Mid 2013 Mid 2014 Mid 2015

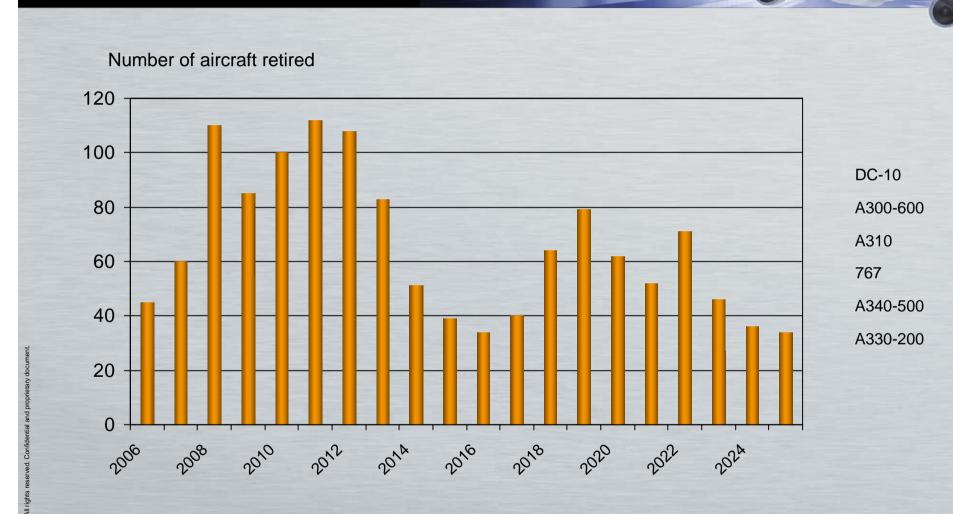
Demand by category 2006-2025





Source: Airbus GMF 2006

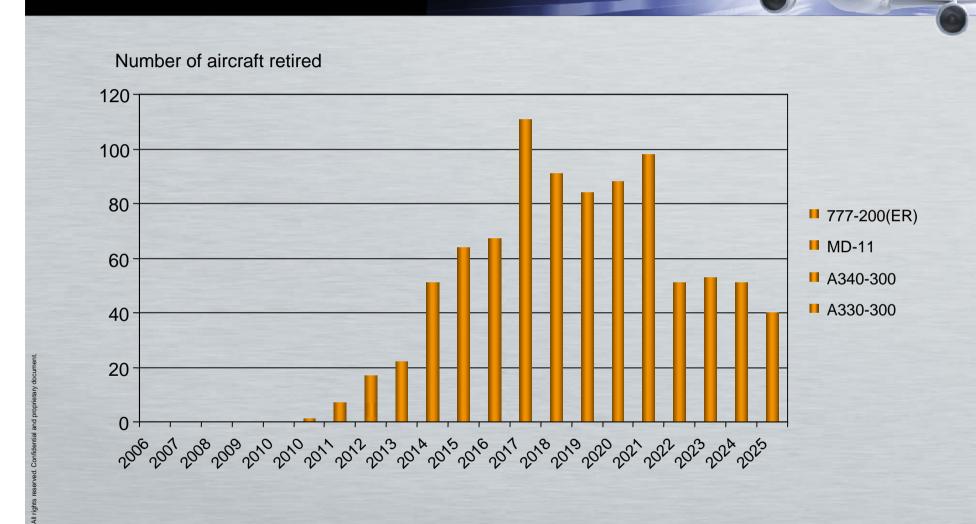
Replacement wave 250 seater category 1st wave of replacement concerns the 250 seater





Assumes retirement @ 20 years

Replacement wave 300 seater category 2nd wave of replacement concerns the 300 seater





A350 XWB – taking the lead

- A totally new design
- Unrivalled performance
- Unbeatable economics
- A new long-range family





For the Xtra experience



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