





Successful Entry into service of A350-900



Learn lessons to meet delivery commitments



Preparing the future by boosting competitiveness



A350 XWB is certified on time (as committed in 2012)







Demonstrating reliability at certification enabling EASA ETOPS

1st A/C type certified "Beyond 180 min"

ETOPS 180 min in basic specification

ETOPS 300 min or 370 min available as options

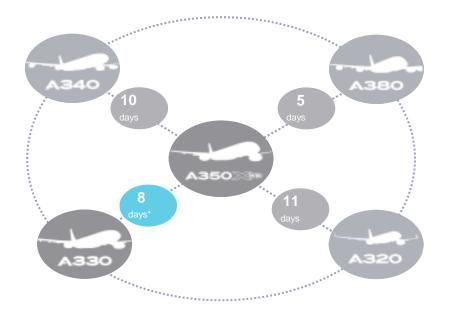




A350/A330 Common Type Rating Achieved

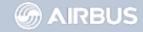
A330 and A350: Common Type Rating granted

training duration of 8 days with no use of Full Flight Simulator.

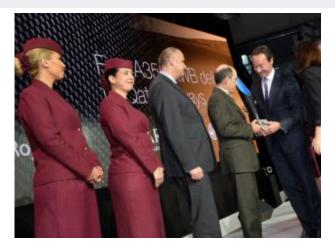


Easy introduction of A350 into existing fleet and possibility of Single Fleet Flying (SFF)





An outstanding achievement: First A350 XWB delivered on time







MSN006 delivered to Qatar Airways on December 22nd, 2014 Entry into Service achieved on January 15th, 2015 opening the <u>Doha</u>-Frankfurt route

Aircraft activity since delivery

- Ferry Flight to Doha: 23rd DEC 14
- Over 100 training flights rhythm of 8 flights per day
- A350 media event: Heathrow/Qatar noise partnership launch
- Daily commercial rotation operational between Doha and Frankfurt (16 commercial flights so far)
 →283-seat configuration: 36 Full-flat-bed business class seats, 247 economy class seats

Excellent feedback from customers





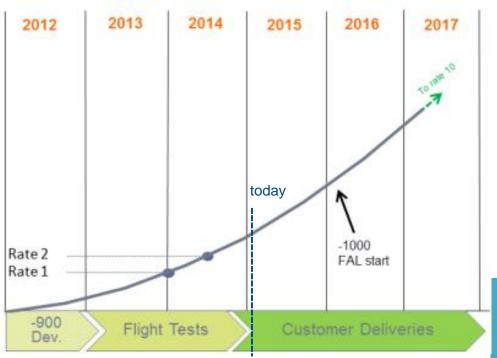
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15th Jan '15 inaugural Doha-Frankfurt route





Steep Ramp Up in FAL & pre-FAL with high focus on quality





We are now starting the real industrial journey

- 13 customer aircraft progressing in FAL (including 3 HoV)
- Steep ramp-up and A350-1000 FAL start by early 2016

12 heads of version in 2015





















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What Makes the Difference on A350 XWB? Applying Lessons Learned

Program management

- Alignment programme / functions with Trust of top management => Speed
- Risks & opportunities led at head of programme level => Anticipation
- Continuous de-risking of contracts with customers => Customer confidence

Communication

- Planning transparency to enable alignment => Efficiency
- Very regular communication with customers, markets and suppliers with explanations => Trust

Technology & Maturity

- New technology risks (Stringers, root joints) identified and mitigated
- Quality Gates and Stop & Fix approach to gain speed in FAL
- Airline-like environment during flight test campaign to accelerate operability



Airline like Environment: AIRLINE1 & Airline Office - Key Enabler for Maturity



AIRLINE Office — Voice of Customer

Providing the airlines' experience

Contribute to validation of customer support system



Mirror airline operations

Aircraft Maturity

Tech Pub & Ground Support Equipment

Aircraft Operability

Dispatch Operations

Maintenance Efficiency

A350 focus on maturity

Delivering an A/C with the highest dispatch reliability. Prepare rapid solving of in-service issues (TTGF*)



AIRLINE1 – Operational Scenarios successfully tested















Pilot Walkaround

Avionics Fans Uploading

Auto Refuel



What Makes the Difference on A350 XWB? Applying Lessons Learned

Customisation & Industrial Requirements Reconciliation

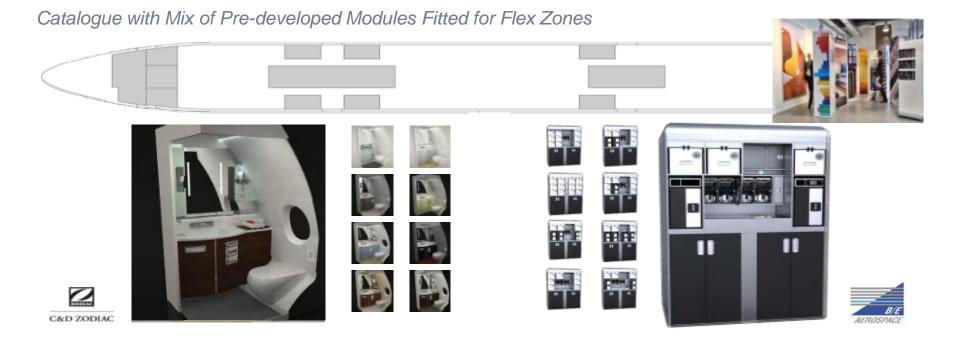
- Catalogue policy with Enabling platform: => High Reuse / Leadtime reduction
- Qualified BFE suppliers
- Customer Definition Center for definition freeze

Supply Chain, Methods & Tools

- Reliable extended Enterprise using common development tools & process
- Industrial harmonisation across Extended Enterprise
- Steep ramp-up but limited aircraft in FAL at certification => Limits Retrofits
- Pro active development of critical suppliers



Customisation & Industrial Requirements Reconciliation



Modular Offering with almost limitless combinations



Customisation Policy contributing to A350 XWB's success:

- 1. Lower industrial risk: 3 Heads Of Versions already in FAL at EIS
- 2. 85% Re-use of design solutions + Enabling platform = 12 mature CDF achieved.
 - CDF to delivery in 12 months at Rank 100
 - Residual value protected by high commonality between customers' aircraft configurations
- 3. Cabin retrofits facilitated by full cabin configuration representation in the DMU
 - More competitive/affordable retrofits

Opportunities for improvement

- 4. Continuous improvement on offering to meet the evolving market expectations
 - Involving launching customers on new catalogue products
- 5. Process simplification: ACS* & SFE

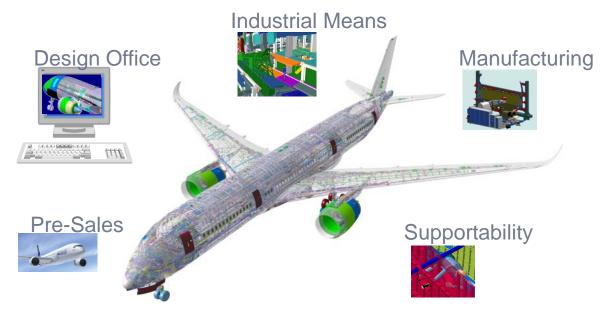
*Airbus Contracted Suppliers

Ramp up is coming but we are ready to bring flexibility



Common Design Environment: New way of Working

DMU (Digital Mock Up) as Master throughout the Value Chain



Same Process, Methods, Tools and Organisation Unique DMU shared by all contributors





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A350 XWB Firm order status – end December 2014

31 Countries – 3 Alliances – 5 Leasing companies









A350 XWB

780 orders from 40 customers

2014:57 gross orders4 new customers

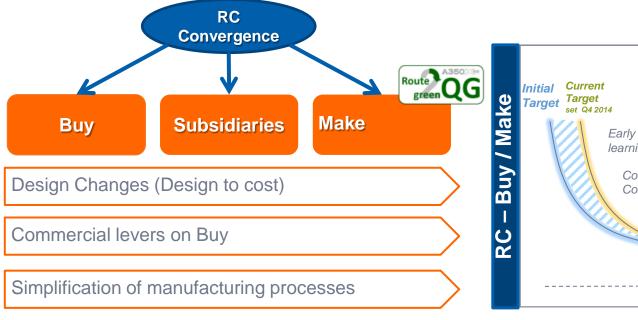


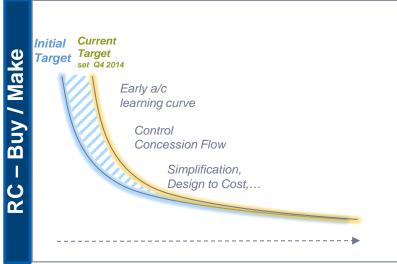


Net orders as end December 2014



Profitability Protection through Production Costs convergence

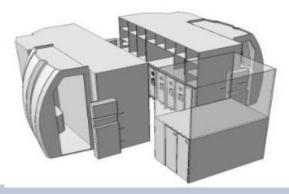






A350 XWB Cabin Improvements

- CCRC improvement
- New IFE supplier
- Optimised shape lavatories
- New aft D4 arrangement
- 3-trolley trans. galley lateral fwd D4
- 6-trolley trans. galley in center D2







With confidence

+ 12 Y

in 4Class layouts

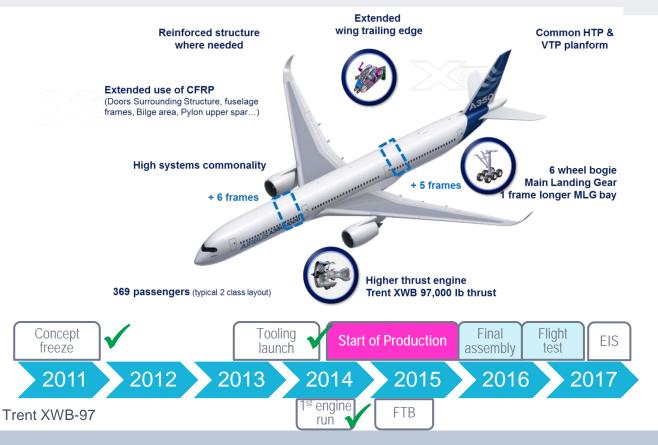
+18 Y

in 2 Class layout





Preparing A350-1000 industrialisation on time



A350-1000

A derivative which **benefits** from the A350-900 experience

On track for EIS in **2017**

169 orders from 9 customers























Preparing A350-1000 industrialisation on time



Rolls Royce Trent XWB-97 **Engine** ran for first time



PAG CFRP **\$13/14 Fuselage** shell – 1st Ply



UTAS **MLG** manufacturing started and Scale 1 Mockup



2015 for A350XWB: The year of TRANSITION to build SUSTAINABILITY

Successful start of operation in service

Keep **-1000** on track by ensuring mature FAL start early 2016

Prepare the future

Increase agility of **customization policy** to enable <u>new business</u> opportunities

Stabilize and make robust **industrial planning** 2015/2016 for <u>new sales</u> opportunities

Strengthen family attractiveness (product evolution plan)



Conclusion





- A350 XWB EASA & FAA Type Certification achieved on schedule
- A350 XWB First Delivery to Qatar on time
- Functional & Reliability tests done with mature systems



Next steps:

- Successful start of operations
- Deliver ramp up along the whole supply chain with high focus on quality



Continue to apply lessons learnt to keep -1000 on track

A350 XWB as a booster of Airbus competitiveness



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