

**Presented by
Charles Champion**

**Airbus COO and
Head of A380 Programme**

ICAS
(International Council of the Aeronautical Sciences)

7th September 2006



1996 - 2000



The creation of the A3XX organisation

- The creation of the Large Aircraft Division (LAD) in April 1996 to start the design concept studies on the A3XX
- The LAD objective was to work on the requirements with Airlines, Airports and Airworthiness Authorities for the A3XX
- All the different disciplines were assembled under one organisation e.g. engineering, financial, industrial, marketing and transport
- The objective to get commitments from the Airlines to enable a launch base

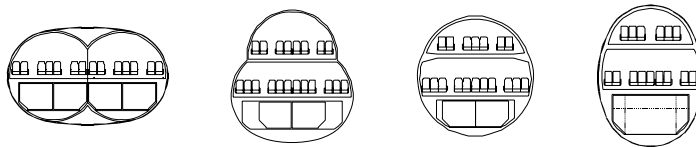
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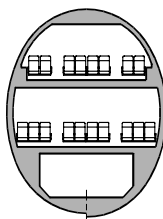


Fuselage design evolution

- allow for creative spirit
- create competing concepts
- evaluate concepts relative to design targets (weight, drag, size...)



- select best solution
- refine configuration



A3XX fuselage section is new from scratch

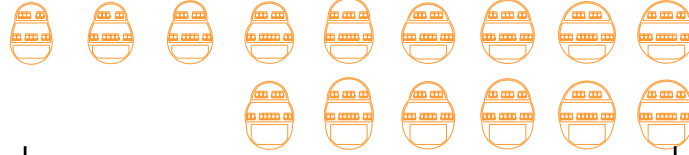
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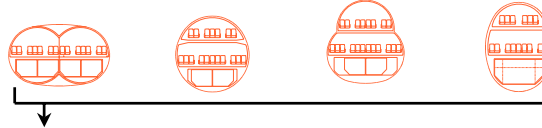


Fuselage sections studied...

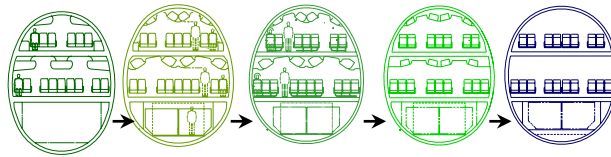
(selection only)



concept selection
 criteria : surface
 check : length
 cargo volume



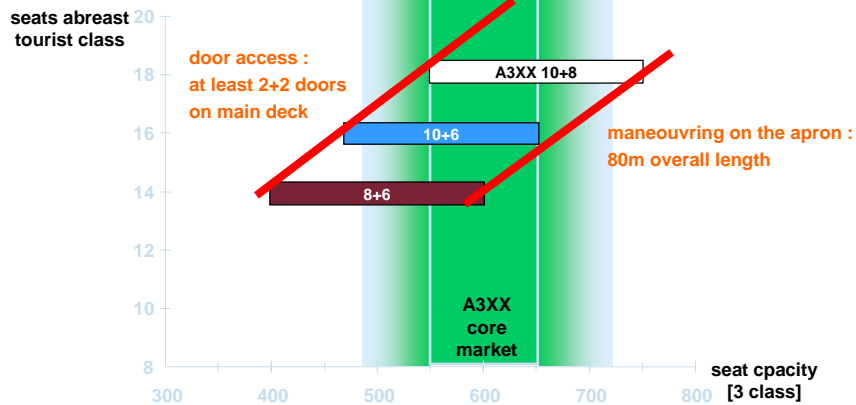
competitive benchmarking
 criteria : surface
 weight
 length
 cost



refinement
 surface
 tail arm
 door access
 airline attractivity



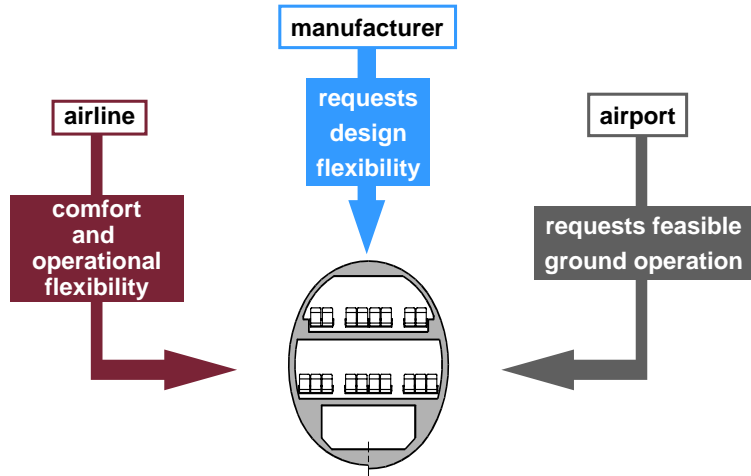
Aircraft compatibility as sortout criteria



Limited freedom of choice if all targets are to be fulfilled



Seats Abreast Decision



One fuselage section that fulfills all requirements

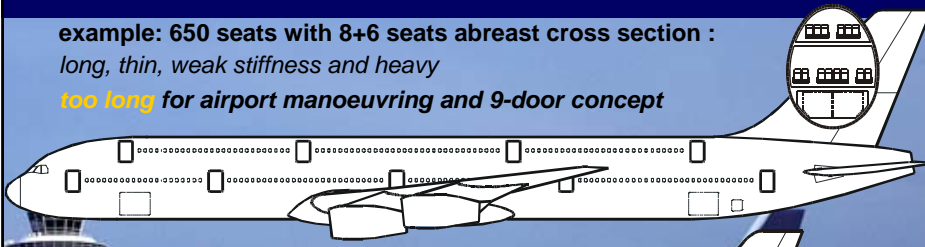
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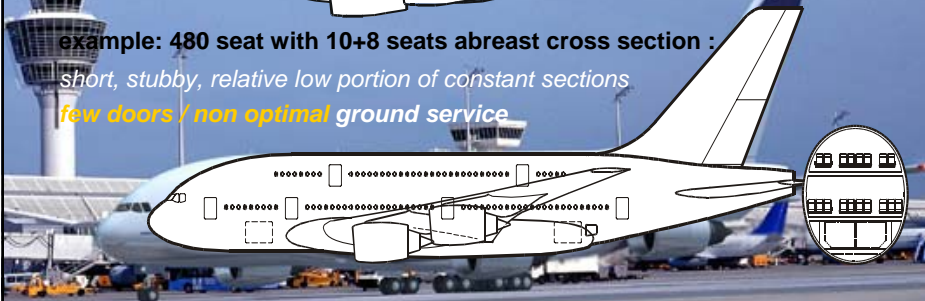


Limitations on seat capacity

example: 650 seats with 8+6 seats abreast cross section :
long, thin, weak stiffness and heavy
too long for airport manoeuvring and 9-door concept



example: 480 seat with 10+8 seats abreast cross section :
short, stubby, relative low portion of constant sections
few doors / non optimal ground service



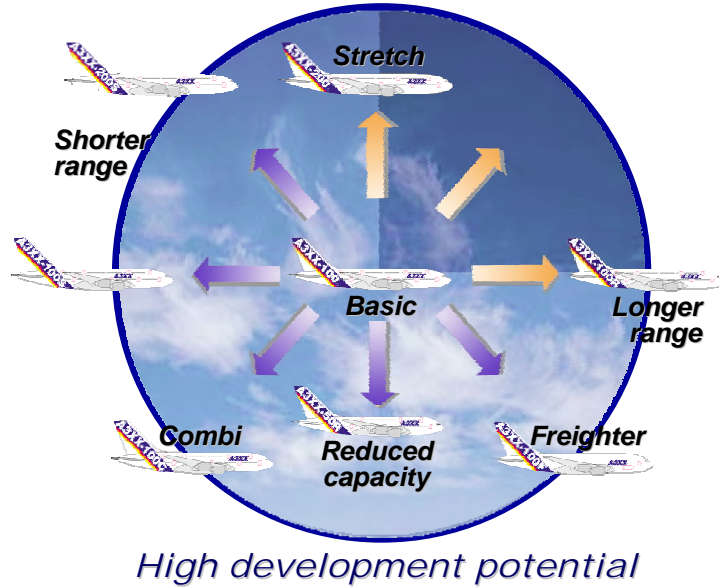
Airport compatibility is a limiting factor on seat capacity



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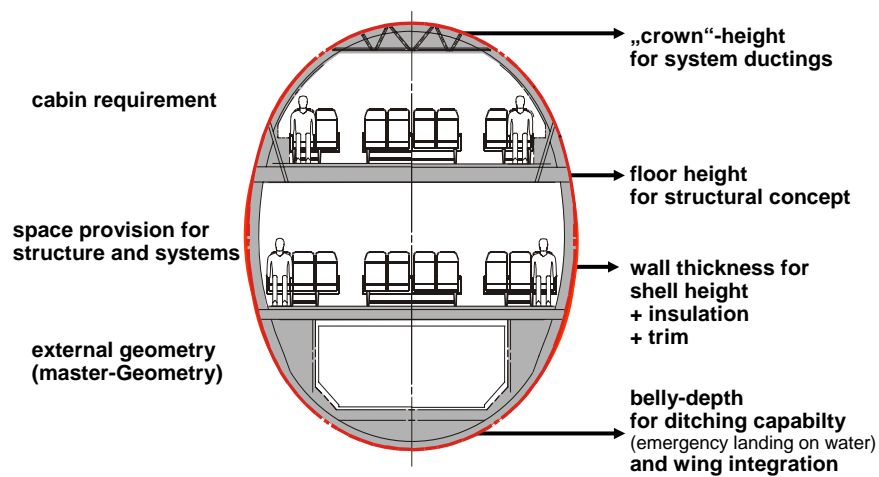
A3XX family



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From cabin requirements to the outer dimension

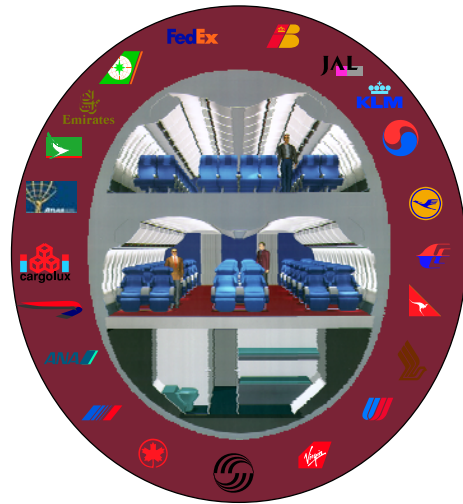


Early reservation of the space that is later occupied by structure

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Prepared with a group of highly qualified airlines



*20
leading
airlines
are shaping
the design
of the A3XX*

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A3XX Forums, Carcassonne

June 1996 and December 1996

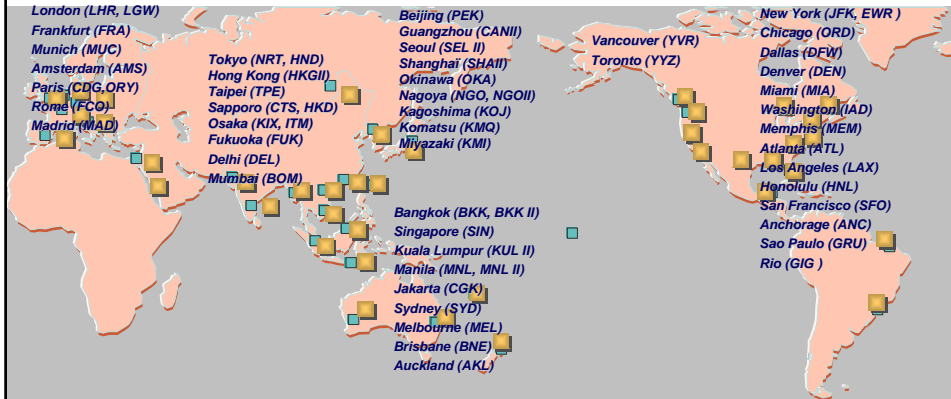
Air Canada, Air France, All Nippon Airways, British Airways, Cathay Pacific, Cargolux, EVA Air, Federal Express, Iberia, Japan Airlines, KLM, Korean Air, Lufthansa, Northwest, Singapore Airlines, United, Virgin Atlantic Airways



Mapping the future: concept discussions for an aircraft larger, better than the legendary, but venerable, 747. The A380 family was the result.



Airports: planning for the A3XX



- Regular contacts with over 50 major airports worldwide
- Major airports are - or are getting - ready for the A3XX
- Working and planning for a smooth, trouble-free EIS

For airports, the A3XX is part of the solution

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Technical progress during 1999

More than 50 aerodynamic / geometrical changes have been incorporated in 1999



Examples

- Wing plan form
- Section shape / twist
- Tank arrangement
- Engine position
- Fuselage cross-section
- Door position
- Fin and HTP size
- System housing for space and c.g. reasons

Application of new technologies and design principles contribute to achieving performance and operation targets

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2000

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Summary of CFGs from 1996 to 2000

1996	4 CFG's	
1997	12 CFG's	
1998	11 CFG's	
1999	7 CFG's	
2000	14 CFG's	

By the end of 200 48 Customer Focus Groups performed

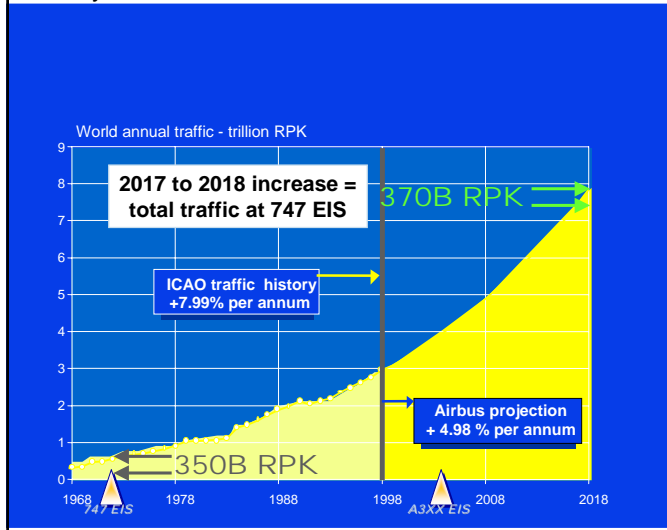
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A growing market

- Analysts world-wide share the Airbus view on an air traffic growth of 5% per annum over the next 20 years i.e. twice as many passengers in 15 years .



- Traffic levels in 20 years time will therefore increase by 4.9 trillion RPKs.
- When Boeing launched the B747 total world traffic levels were one tenth of today's.

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The Air Transport Industry : cost-conscious

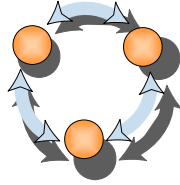
- We believe we cannot rely on a scenario that would provide for the quick and unrestricted availability of :
 - ▶ New airports
 - ▶ New runways
 - ▶ New gates
 - ▶ New ATC systems
- We believe that although some developments will happen, there will continue to be :
 - ▶ Physical limitations (land availability)
 - ▶ Financial bottle-necks (Budget allocation)
 - ▶ Social and political hurdles (cost of opportunity & environment)
- Everybody talks about privatisation, bottom line, shareholder value, return on investment ...

We look towards an efficient, cost-effective, productive aircraft that could minimise the infrastructure investments

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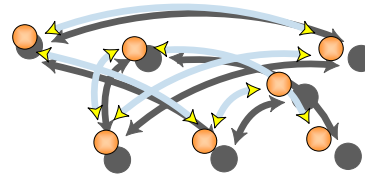
Market trends



CONSOLIDATION

- More cost-effective
- Hub dominance
- Global network
- Linking major hubs
- The logic behind alliances

A3XX



FRAGMENTATION

- Hub by-passing
- Market development
- Frequency on thin routes
- The business flyer's dream

A330/A340

The real world: consolidation and fragmentation

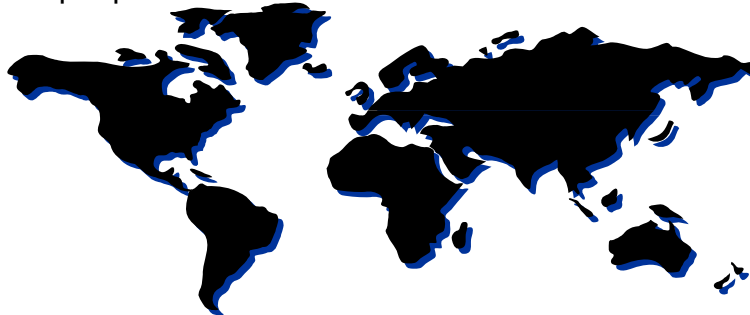
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Air Traffic : where we will see it

- Air Traffic is dependant on the globalisation of the economy, the income of the population, and the need for leisure ...
- In all of this, speed, reliability and economics determine the efficiency of the Air Transport contribution to serve the people needs



- Active megalopolis will continue to concentrate active, wealthy population and business leadership


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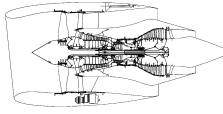
Top Level Aircraft Requirements

Comfort

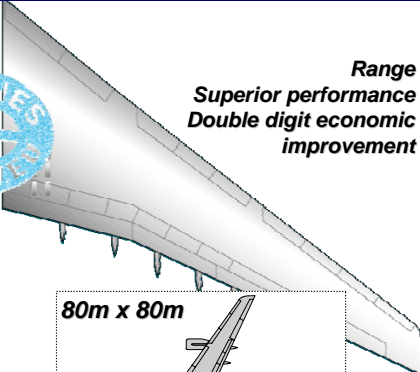


Capacity

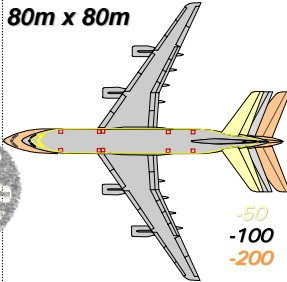
Efficiency
Silence
Environment friendliness



Range
Superior performance
Double digit economic improvement



80m x 80m




-50
-100
-200

Quick TRT

AIRLINES APPROVED

AIRPORTS APPROVED

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A380 Major systems innovations

- New and Open Avionics applied to all system controls
- Ethernet base data communication (AFDX)

Bulbless lighting - HID

Dual/dual air conditioning packs

8 times 6"x8" LCD display units
+ 2 specific display for information services
Interactive control & displays for main HMI functions

On-board Oxygen generating system

On Board Maintenance and electronic documentation/ & log book

On Board Information System for cockpit and cabin services

20 wheel Landing Gear
Rear wheel steering
Single cavity brakes

Electrical Flight control back-up
Reduction of stability margins
Split elevators and rudder

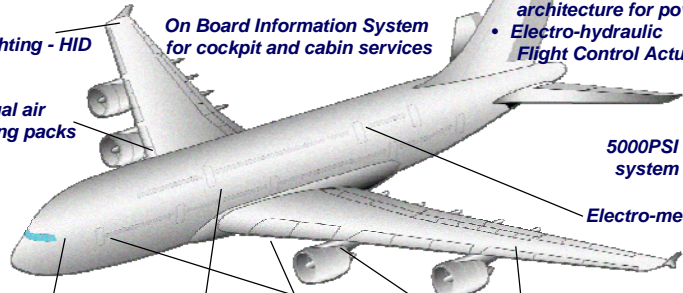
2 hydraulic + 2 electrical circuit architecture for power system
• **Electro-hydraulic Flight Control Actuators**

5000PSI hydraulic system pressure


Electro-mechanical doors

Fuel used for wing load relief

Variable frequency electrical power
Solid state components for electrical distribution



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Authorisation to Offer

- June: A3XX A.T.O. given
- September: Engine architecture defined for both Rolls Royce and Engine Alliance
- Key driver - Noise
 - 116 inch fan to enable QC2 departure / QC 1 arrival

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The A380 is launched...

- On 19th December 2000, the A3XX was launched and named the

A380 & A380F

- The launch airlines were:
 - Singapore Airlines
 - Emirates
 - Qantas
 - Air France, ILFC, Virgin and Fedex

For a total of 60 firm aircraft

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A380 launch base established

	✓	5 A380 2 A380-F
	✓	10 A380
	✓	5 A380
	✓	10 A380
	✓	12 A380
	✓	6 A380
	✓	10 A380-F



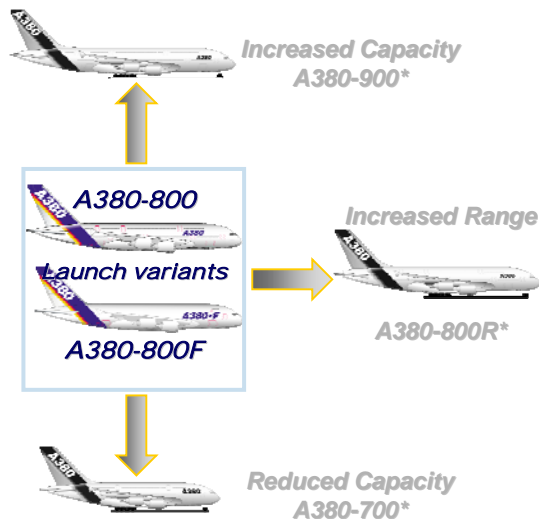
A successful launch - 60 firm orders plus option

*As of March 31st, 2001

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A380 family - Potential for development



**Potential product development*

The virtues of a whole new programme

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2001

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2001 Key events and challenges

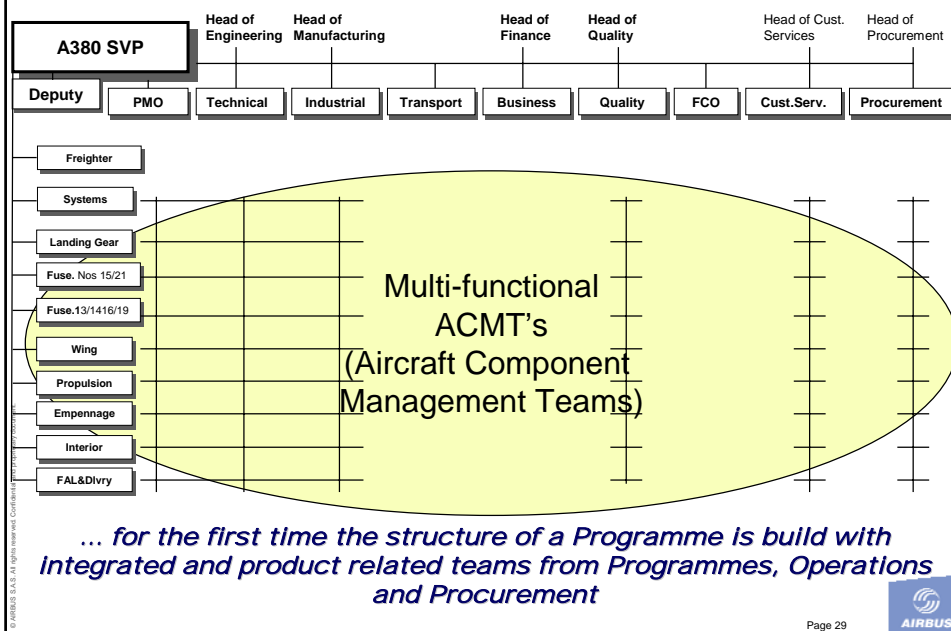
- Transition from A3XX Project to A380 Development
- Launch of the planning for the new A380 facilities across Europe
 - Broughton
 - Hamburg
 - Toulouse...
- A380 Work package allocation and start firming up Supplier selections
- Establish the A380 Programme organisation
 - Aircraft Component Management Teams (ACMT's) created to design and manufacture the aircraft sections and systems
 - A380 Central Programme for Programme management
- Secure Engineering resources (up to over 5,000 Full Time Equivalent)
- Detailed review of aircraft definition, focus on the weight
- Flying Test Bed vehicle selected for Trent 900 :A340-300 MSN 1
- Firm up the A380 Customers
- Start to firm up commitments from Airports with Airlines
- Put in place specific A380 Transport organisation...Beluga too small !

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The A380 organization

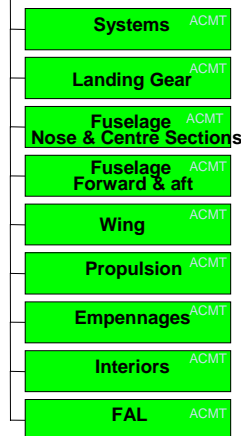


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ACMTs form the organizational backbone for the development of the A380 Programme

Programme Management



Mission of ACMT

To deliver in time/cost/quality and performance aircraft components and systems

4 main locations ("Plateaux"):

Toulouse – Hamburg/Bremen - Filton - Madrid

5 "Plateaux" including Programme Directorate in Toulouse

The 4 development locations ,plateaux' will house:

ACMT + CMIT + CDBT

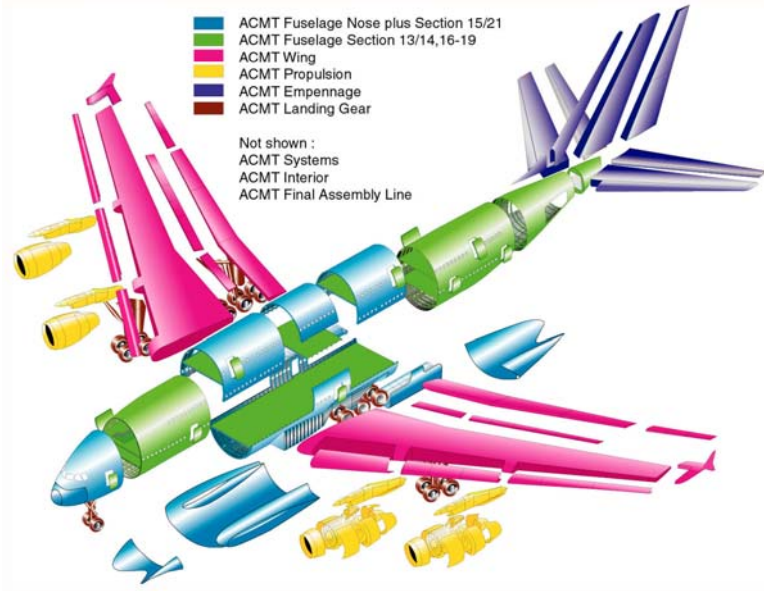
Organization of "Plateaux" is defined to ease communication between teams not in direct relationship through organizational breakdown, e.g.:

CMIT: Slats & Flaps (Bremen) <=> Secondary flight control team in BRE

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The A380 Aircraft Component Management Teams (ACMTs)

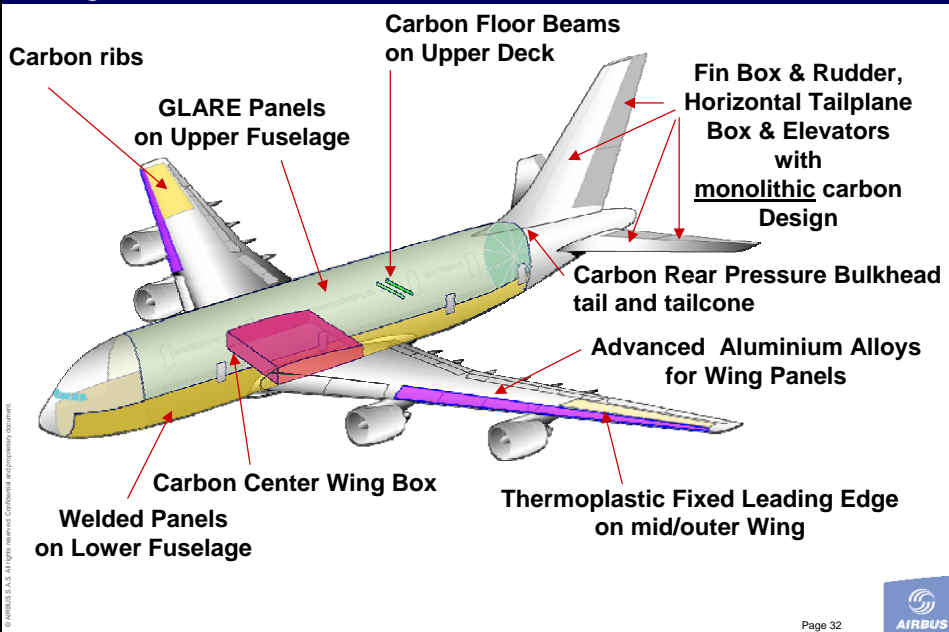


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A380 Technologies for Value...add new chart winglets



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The A380 programme Headquarters



A380 Engineering building - Toulouse



2002

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2002 Key events and challenges

- Keep the Customers on board...
- First Metal cuts – the cruciform for the centre wing box
- Complete the plans for the new facilities across Europe
- Finalise the remaining supplier selections and work packages
- Start of Customisation process with launch airlines
- Establishment of System Test benches
- Major engine / nacelle / aircraft interfaces agreed
- Ensure completion of the Iron Bird Facility and start installation of equipment
- Maintain the ramp up plan across all the Engineering sites
- Maintain the momentum on the Airports
- Get the first drawing sets to Manufacturing

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2002

23 JAN 2002: FIRST METAL CUT (FRANCE)



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First A380 structural components

France

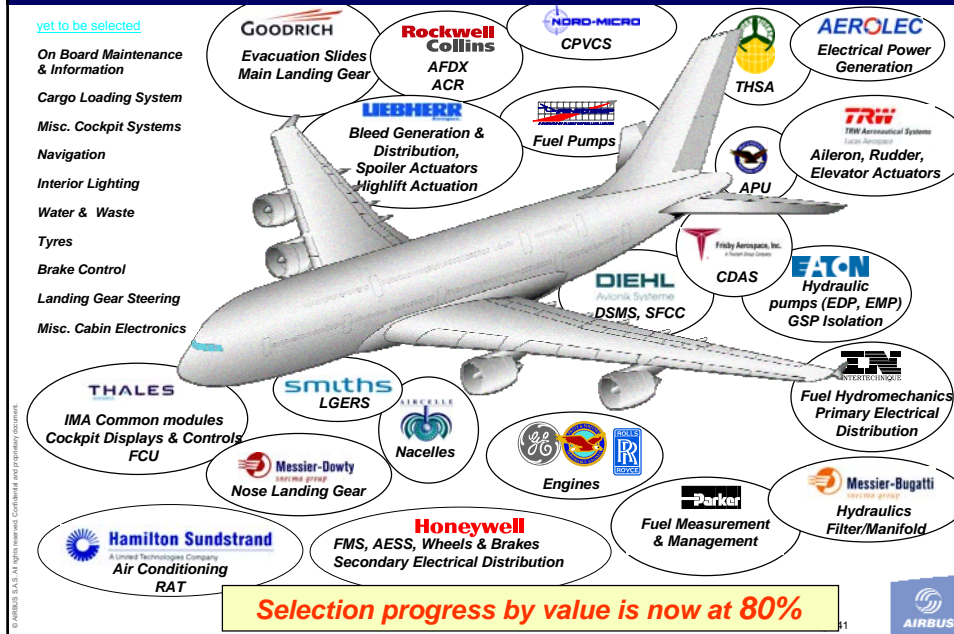
Germany

UK

Spain



A380 Global equipment sourcing



THE JEAN-LUC LAGARDERE SITE The key figures

- THE ARCH
 - Dimensions 490 m x 250 m x 46 m
 - Ground limits about 100 000 m²
 - The offices 36 000 m²
 - The big doors 100 m x 27 m
 - Maximum bearing of the beam 117,50 m
 - THE OVERALL PROJECT
 - Total weigh of the frame 32 000 tonnes
 - Technical galleries 5 km
 - Total Volume of the Concrete 125 000 m³
 - THE WORKS
 - Maximum staff 2000 people (Sept. 2003)
 - Number of contracts more than 150
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Creation of dedicated Iron Bird Facility November 2002



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2003

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2003 Key events and challenges

- Keep the Customers on board...
- First section start to take shape
- Road transport trials planned for 2003
- Trent 900 First Engine to Test (FETT) in March
- FAL Toulouse readied for the delivery of the first sections
- Produce cabin mockups for the new “special cabin projects” in Hamburg
- Establishment of System Test benches
- Get the Iron Bird “flying”
- First wing box transport from Nantes to Saint Nazaire
- First wing out of jig in Broughton (UK)
- Keep the weight, drag and engine intergration under control

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Airbus UK – Broughton facilities



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A380 FAL – First roof section lifted, February 17th 2003



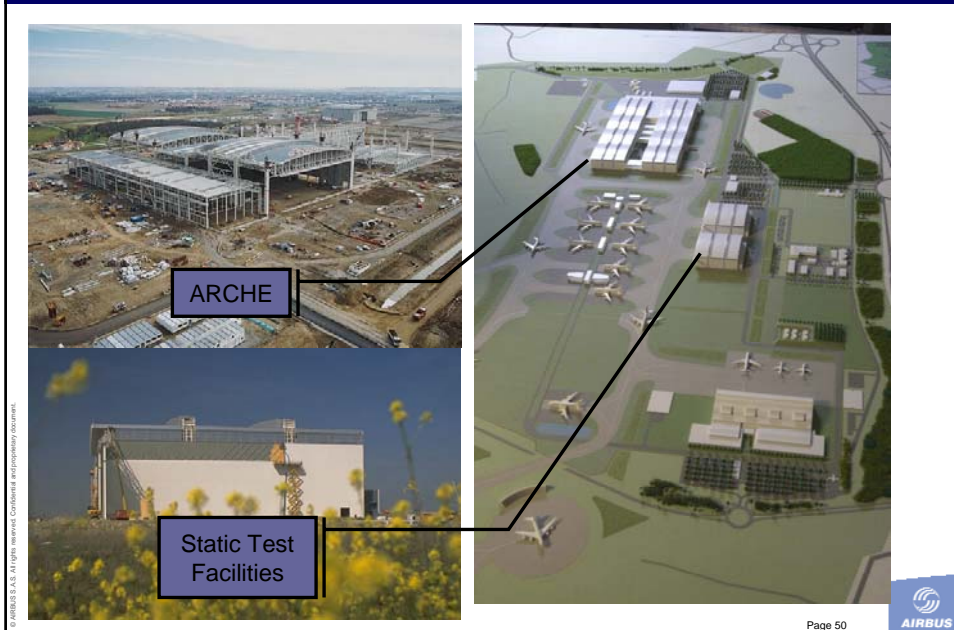
Airbus Spain – HTP Skin laying in Illescas



Airbus Germany - Hamburg site



A380 Final Assembly Line - Construction underway in Toulouse



Toulouse - Ironbird



First wingbox transport – Nantes to Saint Nazaire



Main key events – A380 Achievements – Nov. 03 First Wing out of jig in Broughton



04/11/03 First wing out of jigs
in Broughton



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Main key events – A380 Achievements – Nov. 03



27/11/03 Centre section assembly
from upper shells integration station to belly fairing installation station.

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► *From first trial on November 14, 2003 to...*



2004

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2004 Key events and challenges

- First A380 cabin layout freeze and cabin vendor selections to be finalised
- First fuselage sections ready ship
- GP7200 First Engine to Test
- Trent 900 1st Flight and Flying Test bed campaign and Trent 900 certification by EASA
- First shipment of the first A380 to Toulouse (static specimen)
- Opening of the FAL by French Prime Minister
- Delivery of First Rolls Royce engine to Toulouse and First Flight on A340
- MSN 1 Rolls out of Station 40, 1st A380 to fly!
- Start of flight testing of the GP7200 in USA
- By year end MSN's 1, 2, 4 & 7 in FAL Toulouse
- Start of detailed design phase for the Freighter

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A380 Transport - Marine Transport

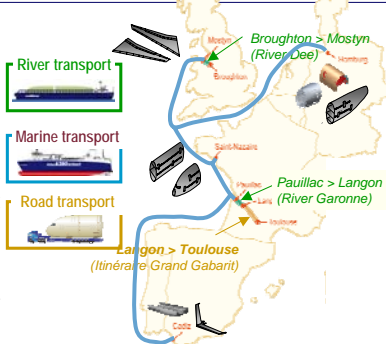


Ship owner and operator : FRET/CETAM

- Vessel built in Nanjing Jingling (China)
- Launched on 30th July 2003
- Delivery in China by April 2004



Naming Ceremony 27th Feb-04
Ville de Bordeaux



Stern view

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The "Ville de Bordeaux"



A380 Transport - Harbors

- Specific port terminals under construction or in place, located near to the Airbus plants:
 - Hamburg completed Sep-03
 - Mostyn, St Nazaire, Cadiz on progress



- Port terminal at Bordeaux/Pauillac, entry point to in-land France:
full acceptance on 5th Mar-04



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A380 Transport - River Garonne



1st barge delivered 25th Feb-04
2nd barge by Sep-04



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- ▶ *To reality April 07, 2004*
- ▶ *No major difficulty*
- ▶ *Good coordination of the convoy movement*



Static fuselage sections delivered on time to FAL



A380 FAL Inauguration - 14th May 2004



First flight of the Trent 900 - 17th May 2004



First Flight of the Engine Alliance GP7200 – Dec 04



From the STAR Project to the A380 FAL Site



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2004... a busy year

Production well underway
September 2004



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2005

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2005 Key events and challenges

- The A380 is presented to the customers, the press and the world !
- First Flight 27th April 2005 – the baby is born and doing well...
- Opening of the flight envelope
- Secure 1st flight of MSN 2 & 4 in 2005
- Maturity focus on A380 – creation of dedicated team to ensure operational reliability at EIS
- Bottlenecks in engineering impact the programme leading to re-planning of certification and EIS. Resources redirected and additional support to the teams increased
- The A380 visits the world – over 20 airports visited
- Static and Fatigue testing well underway and ahead of the planning
- GP7200 Engine certification by FAA
- First pieces in manufacturing for the Freighter

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The A380 is Revealed...25 January 2005



A380 First Flight / Take-off 27th April 2005



A380 First Flight ... 27th April 2005



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Flight envelope fully opened in 2005

First flight – 27th April 2005



Le Bourget
June 2005



VMU tests – Istres, July 2005



Water trough tests – Istres, October 2005



**Full flight envelope demonstrated
excellent handling**

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MSN 004 take off - 18th October 2005



MSN 2 first flight 3rd November 2005



Successfully tested at airports worldwide



Tested at Frankfurt, Terminal 2, Gate E9 29 October 2005



From small airports to large airports...



Tarbes, Southern France



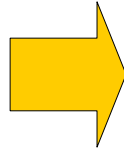
Medellin, Colombia



Pointe-à-Pitre, Guadeloupe



Iqaluit, Canada



Sydney



Singapore



Frankfurt



Dubai

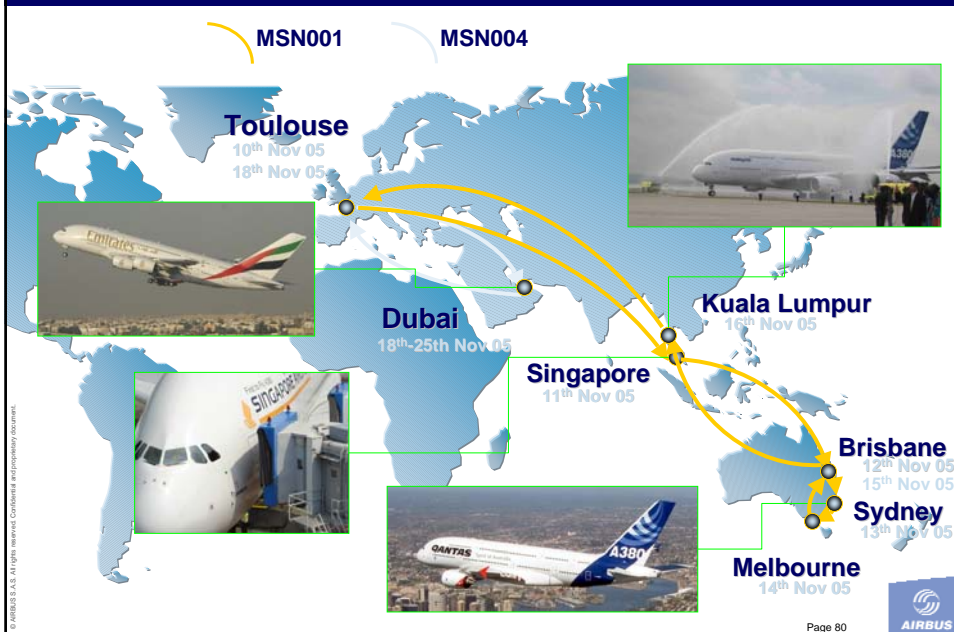
Proven at more than 20 airports visited to date...

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A380 meets the world



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2006

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2006 Key events and challenges

- Keep the momentum with Flight test – more aircraft added
- Secure the Early Long Range Flights, key for Maturity
- Secure the route to certification before end of the year
- Consolidation of performance and noise measuring flights
- Preparations launched with the airlines for the Route proving, the last part of the certification exercise
- First Flight 27th April 2005 – the baby is born and doing well...
- Preparations underway with first airlines for the entry into service i.e. maintenance training, flight simulators and spares stock
- First flight of the GP7200 on MSN 9
- Prepare for for the Main Component Assembly (MCA) of the Freighter in January 2007
- Secure the ramp up

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First A380 now painted in Hamburg



And more recently...



Hot and High
Medellin
January 2006



Hot and Humid
Pointe-à-Pitre &
Fort de France
January 2006



Cold weather
Iqaluit
February 2006

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Asian Aerospace 2006, Singapore



First Customer Aircraft to fly to Hamburg...

- First production Aircraft – MSN 003
- First flight on 7th May 2006
- Ferry to Hamburg on the same day



...in the coming months

MSN1

- ▶ Systems Development and Certification:
 - Landing gear, hydraulics, radio navigation and communication, electrics, fuel
- ▶ High energy RTO

MSN 4

- ▶ Mainly systems development & certification in conjunction with MSN 1
- ▶ Hot weather campaign started in Abu Dhabi (Al Ain airport)

MSN 2

- ▶ Cabin systems development & certification
- ▶ EMI Campaign on-going
- ▶ Early Long Flights starting first week of September

MSN 9 (Engine Alliance)

- ▶ First flight scheduled in August

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Last 12 months achievements

- ✓ Static tests completed, fatigue test specimen now at 15,052 flight cycles. All test benches in operation
- ✓ Both Rolls Royce and Engine Alliance engines certified
- ✓ Development Aircraft first flights:
 - MSN 001 on April 27th 2005
 - MSN 004 on October 18th 2005
 - MSN 002 on November 3rd 2005
 - MSN 007 on February 19th 2006
- ✓ Successful Emergency Cabin Evacuation Trial on MSN 007 in Hamburg on March 26: 853 passengers and 20 crew members in 78 seconds!
- ✓ First Customer Aircraft flew to Hamburg on 7th May 2006
- ✓ MSN 002 Cabin installation completed, Virtual Flight completed on 9th May 2006 now back to Toulouse for Flight Test campaign
- ✓ 15 Aircraft already assembled, including static and fatigue.
- ✓ First Freighter structural elements in production

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A380 Flight testing

From 27th April 2005 to 21st July 2006

- MSN 001
 - ▶ 279 flights
 - ▶ 950 flight hours
- MSN 004
 - ▶ 203 flights
 - ▶ 605 flight hours
- MSN 007
 - ▶ 2 flights
 - ▶ 6 flight hours
- MSN 002
 - ▶ 29 flights
 - ▶ 107 flight hours

513 flights and 1669 flight hours to-date

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A380 Major Structural Testing

Fatigue Test Specimen (EF)

- ▶ Test purpose : over 2.5 times Aircraft life and at least 1 year life before Aircraft operation
- ▶ 5.000 flight cycles reached on 24 Dec '05
- ▶ As of 19th July 2006, 15,052 FC have been accumulated
- ▶ Average of 950 flights reached per week
- ▶ A- inspection (A29) carried out 03 July '06, no major findings detected

Current Forecast:	
Summer '06 1 DSG	
TC	app. 24600 FC
EIS	app. 30000 FC



ES Ultimate Wing Bending test February 2006



Rear End Test/max VTP bending test Jan 05



EF Wing after test start September 2005

Major Static Test (ES)

- ▶ All Ultimate Load cases completed
- ▶ Max Wing Bending case achieved up to 1.45 Limit Load, demonstrating the reliability of the analysis
- ▶ Rupture occurred during loading to 1.5 Limit Load
- ▶ To meet delivery date of first Aircraft, conservative measure taken to add some strips to the top stringers.

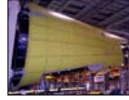
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A380 Industrial Programme Update (22/05/2006)



Section 15, St. Nazaire
022 024 033



Tailcone (Sect. 19-1), Getafe
015 016 024



Section 18/19, Hamburg
023 025 036



Cockpit section, Méaulès
025 027 036



Cabin section, Stuttgart
028 029 039



Rear pressure bulkhead, Stade
029 030 042



Port Wing, Broughton
024 026 036

Aircraft in manufacture :
Today → MID '06 → END '06

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Successful Evacuation Test - 26 March 2006

- Evacuation Test using MSN 007 on March 26 in Hamburg witnessed by Airworthiness Authorities (EASA with FAA participation)

- 873 occupants:

- 853 passengers: 538 MD + 315 UD
- 18 cabin crews and 2 flight crew members

- Evacuated the Aircraft in semi-darkness with half the doors inoperative...in 78 seconds!

EASA and FAA approved 853 as the maximum passenger seating capacity for the A380-800.

Cabin Virtual First Flight (CVFF) 09th May 2006



During 5 hours of testing 474 passengers and 20 crew members simulated a 15 hour flight.

Testing of the In-flight Entertainment system, the water waste system and air conditioning

All cabin operations from boarding to safety instructions, galley and trolley lift operations together with a full meal service were completed successfully

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ILA Conference – Berlin – May 2006



BAA – Heathrow – 18/05/2006



The Freighter is in production...

Panel 5 (Outboard) for MSN037 completed in Korea



First Front Spars by Saab at Mecachrome



1st Fuselage Integral Frames manufactured in Nordenham



1st Carbon Parts manufactured in Nantes



Freighter - Engineering

Definition phase completed.....

- ▶ All Structural Design Principles including material choice agreed
- ▶ Barrier Wall concept and CFRP material confirmed
- ▶ Freighter-specific system architectures (e.g. Door Slide Management System, Cabin Intercommunication Data System, Air conditioning, ...) frozen
- ▶ 100% design solutions integrated in the Digital Mock Up
- ▶ Mechanical and electrical Systems installation well advanced
- ▶ Interface agreements:
 - primary structure done
 - mechanical and electrical system installation nearing completion
- ▶ 30 % of specific Freighter Drawings already released for manufacturing
- ▶ Qualification of Aluminum-Lithium skin material achieved

..... Now in full Detailed Design process

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Strong Market Confidence

159 firm orders
from 16
Customers

134 A380
25 A380F

			10 A380
			5 A380
			43 A380
			4 A380
			10 A380F
			5 A380 5 A380F
			5 A380
			5 A380
			15 A380
			6 A380
			2 A380
			12 A380
			10 A380
			6 A380
			10 A380F
			6 A380

Deciding Together: the market-driven A380 family

1996	4 meetings
1997	12 meetings
1998	11 meetings
1999	7 meetings
2000	14 meetings
2001	20 meetings
2002	29 meetings
2003	48 meetings
2004	40 meetings
2005	33 meetings



A3XX

A380

By mid 2006, 242 Airline meetings have been held

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And to conclude on A380...

- 159 firm orders ...including 25 orders for the freighter
- 1st Flight on 27th April 2005
- 15 Aircraft now completed including static & fatigue test models
- Four development Aircraft have now flown with MSN 7 now in Hamburg and the next three in flight test phase
- Two first Customer Aircraft now in Hamburg for Cabin Furnishing
- First Freighter elements for MSN 037 in production

Coming soon to an airport near you!