

Airbus vs. Boeing

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Brief History

Founded in Seattle, 1916

Production scaled up during WW2



US' first commercial jet airliner, 1958



Active participation in Apollo program,

Hydrofoil, submarine hunter



Competition begins with Airbus, 1980s

Space research





Clients-Airlines

- Air Europe
- Air Pacific
- American Airlines
- Asiana Airlines
- Hawaiian Airlines
- Gulf Air
- PrivatAir
- Southwest Airlines



CAirEurope













Brief History

- Airbus began in the aircraft industry in 1970, as a European consortium of French, German, and later, Spanish and U.K. companies.
- Owned in 2001 by
 - European Aeronautic Defence and Space Company (80%)
 - BAE Systems (20%).

 BAE SYSTEMS
- In 2006 BAE sold its shareholding to EADS.
- Based in Toulouse, France.

Transport Aircraft

EADS

ity Aeronautic



Brief History

1999

The anti-noise "Stage 3" increased orders

2000

Airbus officially launches the A380

2001

Downtrend in the market caused by the terrorist attacks.

2003-2004

Reached 52% of the total order book worldwide (1,454 planes).

- 2006-2007
 - -Airbus builds in China its first assembly plant outside Europe.
 - -Changes in corporate governance.
 - Louis Gallois

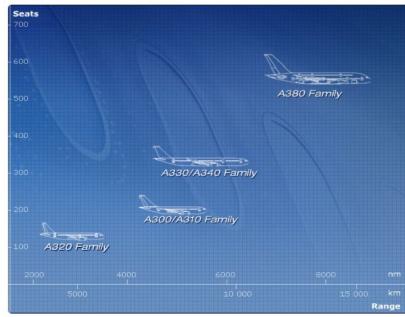




Products

- Small aircraft
 - Less than 100 passengers
- Medium size aircraft
 - 100 -350 passengers
- Big aircraft
 - More than 500 passengers
- Aircraft freight transport
 - Federal Express, UPS and Catha
- Luxury
 - VIP Corporate Jetliner
- Airbus military

Efficiency and comfort, from 100 to 525 seats









Clients-Airlines







- Emirates
- Qatar Airways
- CASC



- Frontier
- China Airlines
- Lufthansa
- Federal Express
- Malaysia Airlines
- Korean Air



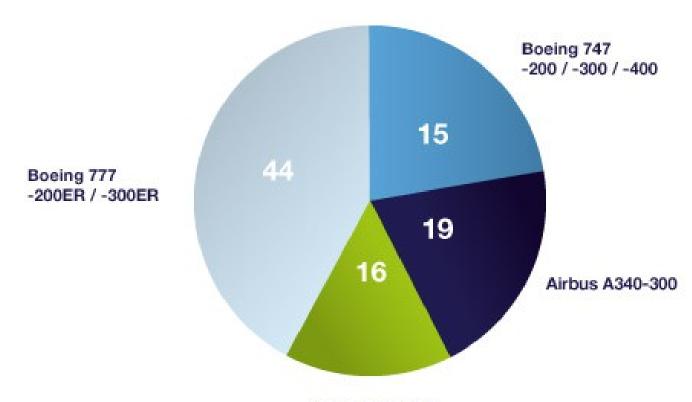






	AIRBUS	BOEING
Headquarters	15 aprox. many languages.	Chicago
Number of employees- needed	57,000 (aprox)	166,000 (aprox) One of the largest employee-owned funds in the world.
Number of aircraft currently in circulation	more than 3,000	more than 14,000
Other units	Military aircrafts	The second-largest aerospace and defense contractor in the world.
Anual revenue 2007	US\$ 157.1 (51% market)	US\$ 61.5 billion
Actual orders	1341	1413
Actual deliveries	453	441
Extra information	-Environmental issues.	-Future environmental issues.

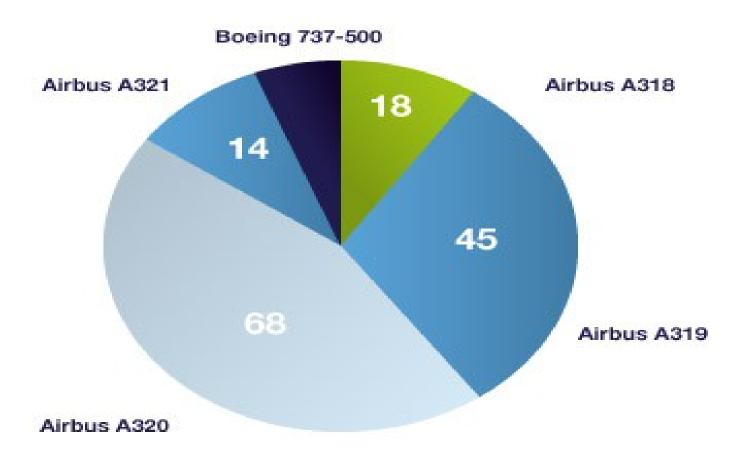
AIR FRANCE LONG-HAUL FLEET



Airbus A330-200



AIR FRANCE MEDIUM-HAUL FLEET





PLANE vs. PLANE

Boeing B777 Airbus A340





PLANE vs PLANE

Boeing 767

Airbus A330





Plane vs plane

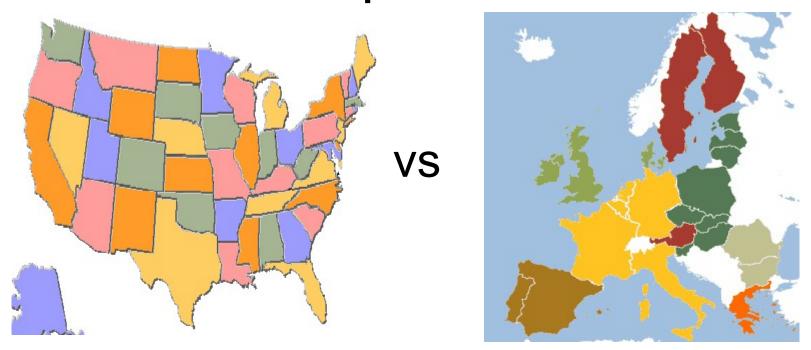
•Boeing 747-400	AIRBUS A380
467 passangers	555 passengers
The most recent version of 747 family.	Use alternative fuel GTL
The world's fastest commercial jetliner and best freighter.	Most modern aircraft flying today (more spacious and more profitable).
The most popular widebody airplane of history.	The first airliner with two floors
	AIRBUS A380





An ugly, protracted war ensues...

The Dispute in Brief



- May be the largest transatlantic war
- Issue: Government subsidies
- US asked WTO to step in to establish dispute settlement panel

Boeing complains first...



"Launch Aid"









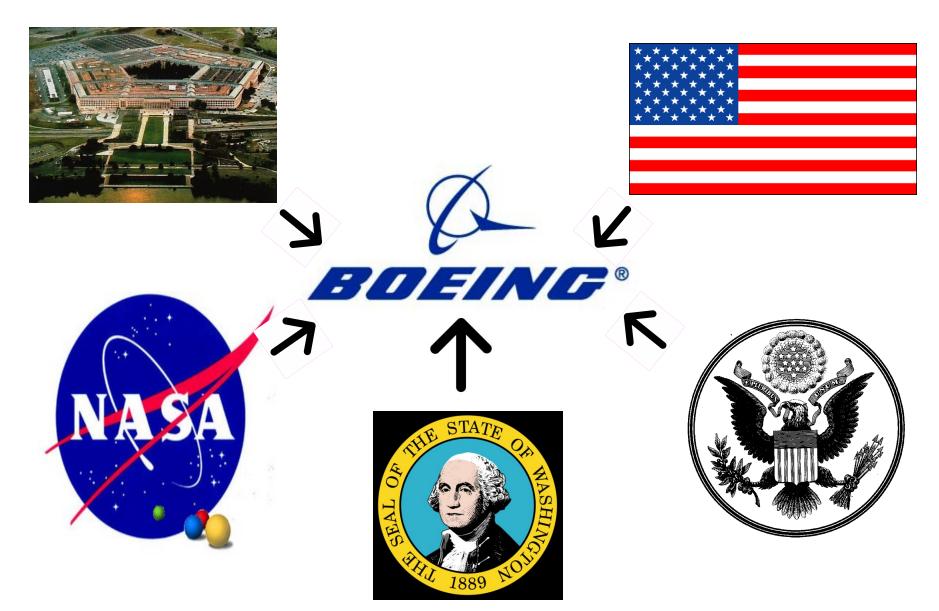


EU Commission





Airbus retaliates...



War Milestones

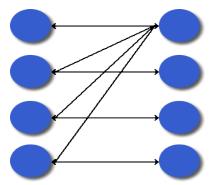
- 1978-79: OECD consensus & GATT
- 1992: EC-US Agreement on Trade in

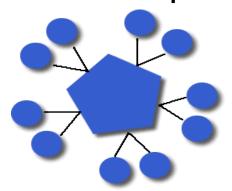
- Large Civil Aircraft
- 2005: WTO gets involved after a year of negotiations fail
- 2007-2008: Awaiting WTO decision

While the two giants fight, the world around them changes...

The shifting marketplace

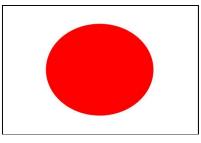
 A changing business model for air travel Point-to-Point vs. Hub-and-Spoke





New threats emerge

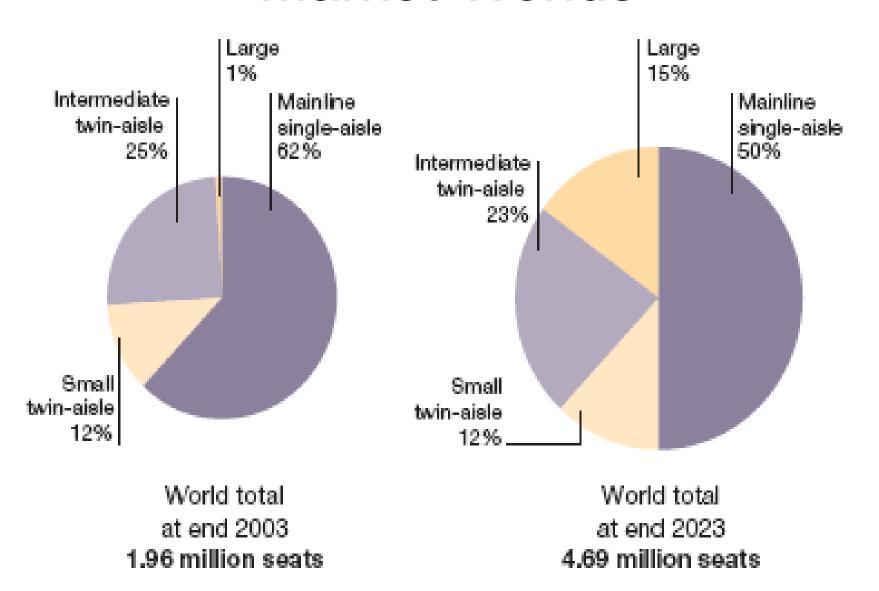








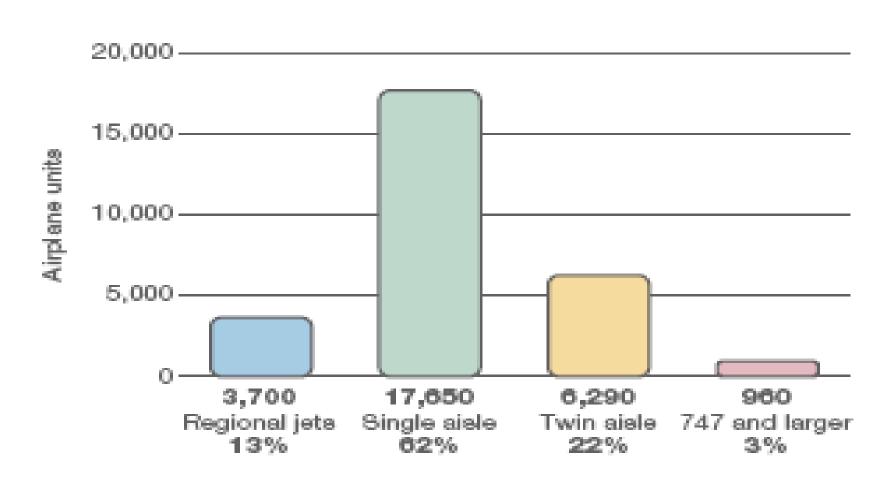
Market Trends



Market Trends

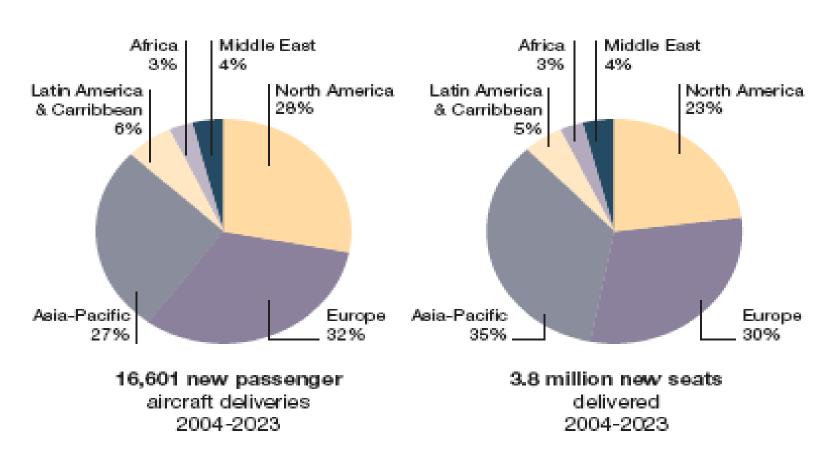
28,600 New Airplane Deliveries

2007 to 2026



Market Trends

Most deliveries to Europe, most seats to Asia-Pacific



Strategies: Boeing

- Focus on Point-to-Point system (Dreamliner 787)
- Garner third-party financing markets
- Acquisition of McDonnell-Douglas in 1997 to increase market share

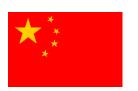


Strategies: Airbus

- Focus on Hub-and-Spoke system (A 380)
- Fuel efficiency and flight tests using alternative fuels
- Commonality amongst models and the fly-bywire technology







The Role of China

- Boeing and China:
 - Long standing relationship with China since
 1972
 - Parts and assemblies: tail section, vertical fin, horizontal stabilizers, doors, wing panels or 1/8 of the whole structure!
 - Engine manufacturers such as GE, Rolls Royce, and Pratt & Whitney are also being subcontracted in China



The Role of China

- Airbus and China
- Relationship established in 1990
- 50% of the Airbus fleet in service has parts produced in China
- Established training and customer support centres

Benefits and Risks

- Benefits: high productivity, lower costs, quality, lax government control
 : springboard to capture Chinese market amounting to \$280 billion and catering to 100 million tourists
- Risks: decrease control, costly training, and transfer of technology to possible competitor



The Chinese Threat

- The AVIC I (China Aviation Industry Corporation I):
- Biggest aviation manufacturer in China that is stateowned
- Extensive network of development, production and related business operations:
 - ✓ 111 enterprises
 - √ 36 research institutes
 - √ 6 universities and colleges
 - ✓ Total staff of 560,000
- Plans to focus more on developing civilian airplanes to catch Chinese domestic market

"AVIC I is the biggest aviation manufacturer in China. Our goal is to reach the level of big international aviation companies in the next 20 to 30 years."

--Tang Xiaoping, assistant president AVIC I

1. Cooperation among countries brings a lot of benefits.

"Airbus demonstrates we can achieve more together in Europe than we ever can alone. Working together in Europe means we can compete with anybody in the world."

~ Former British PM Tony Blair ~

During Jan 2005 unveiling of Airbus 380

Questions

- How do you think the WTO should rule to settle this dispute?
- What steps can Boeing and Airbus take to create a sustainable resolution?
- What will be the future of other producers in the market?