### European Aerospace at a Crossroads

Professor Keith Hayward FRAeS Head of Research Royal Aeronautical Society

Hamburg Branch 5<sup>th</sup> May 2011



## European Aerospace

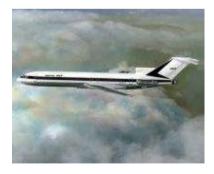
## **The Past**



### **Europe Disunited**









### The First Steps in Collaboration







### The Anglo-French Package











### **European Civil Aerospace Collaboration**









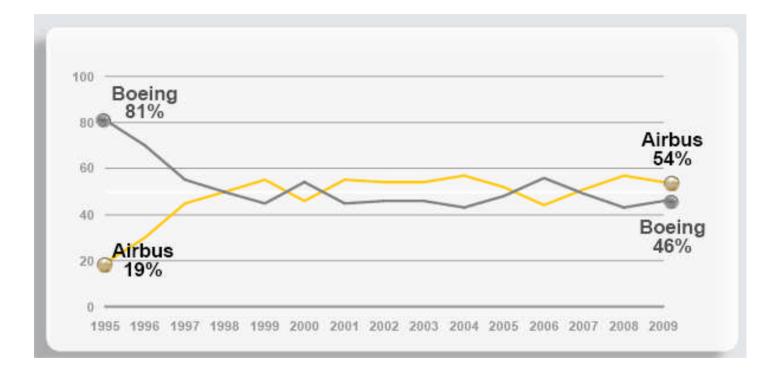
### **The Airbus Family**





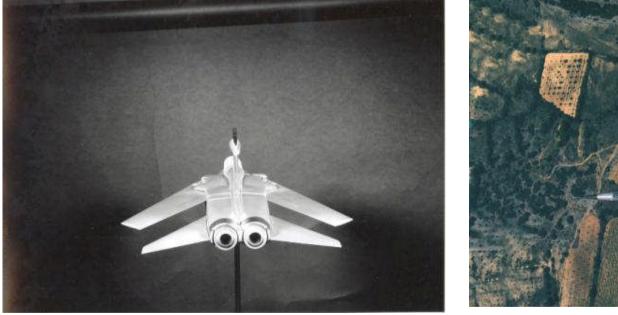


### A Decade of Airbus-Boeing Parity





### European Defence – a Missed Opportunity 1







### **The Second Generation**









### **Another Missed Opportunity**









### Things were supposed to get better



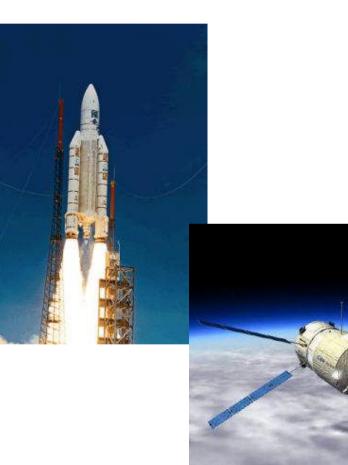
"Eurofighter will be The last collaborative project" John Weston, CEO BAE

A future with:

Transnational companies + Transnational Procurement Agencies



### **European Success in Space**







# European Aerospace

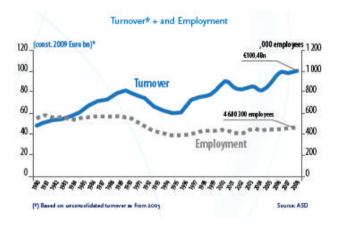
## **The Present**

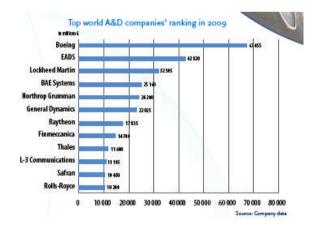


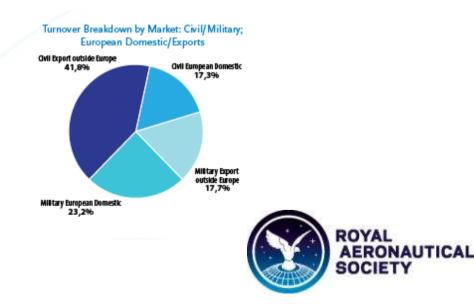
#### **European** Aerospace Now



Aerospace and Defence Industries







European Aerospace

## **The Future?**



### **European Defence future - The 3 Ms Problem**

MONEY MARKET MANAGEMENT



© AIRBUS MILITARY 2009 \_ A400M First Fight - Photo by A Doumergou / Exm Company





### And the American Temptation





### Where next?



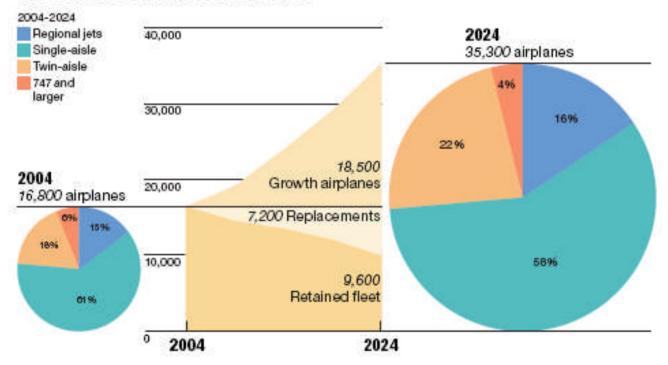






### World Airliner Fleet Forecast

#### The World Fleet Will More Than Double





Source; Boeing

### WTO and the Future of Civil Aerospace Funding





Arguably Europe faces biggest challenge An end to repayable launch investment? More outsourcing? Airbus still a "political" company?



### **Civil Challengers?**









### The Environmental Challenge



