



Advisory Council for Aeronautics Research in Europe

## **Aero-Ukraine Workshop Kiev**

28-29 October 2009

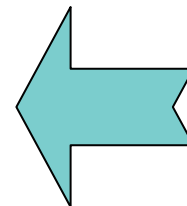
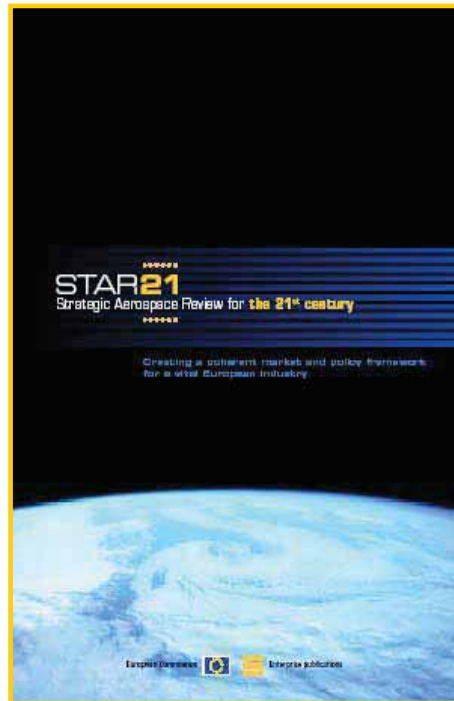
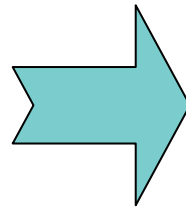
## **ACARE Introduction**

Jean-Pierre Barthélemy



# 2000 - The political commitment

Report of the Group of Personalities : Vision for 2020 (January 2001)



Strategic Aerospace Review for 21<sup>st</sup> century (July 2002)



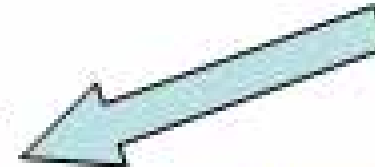
## Began 2000 - The political commitment

Group of Personalities:  
Vision for 2020



January 2001

*Create ACARE with authoritative senior figures to forge a consensus among stakeholders*



June 2001

*Strategic Research Agenda to meet two top-level objectives*

- *Responding to society's needs*
- *Securing global leadership for Europe*



SRA-1

SRA-2

Addendum

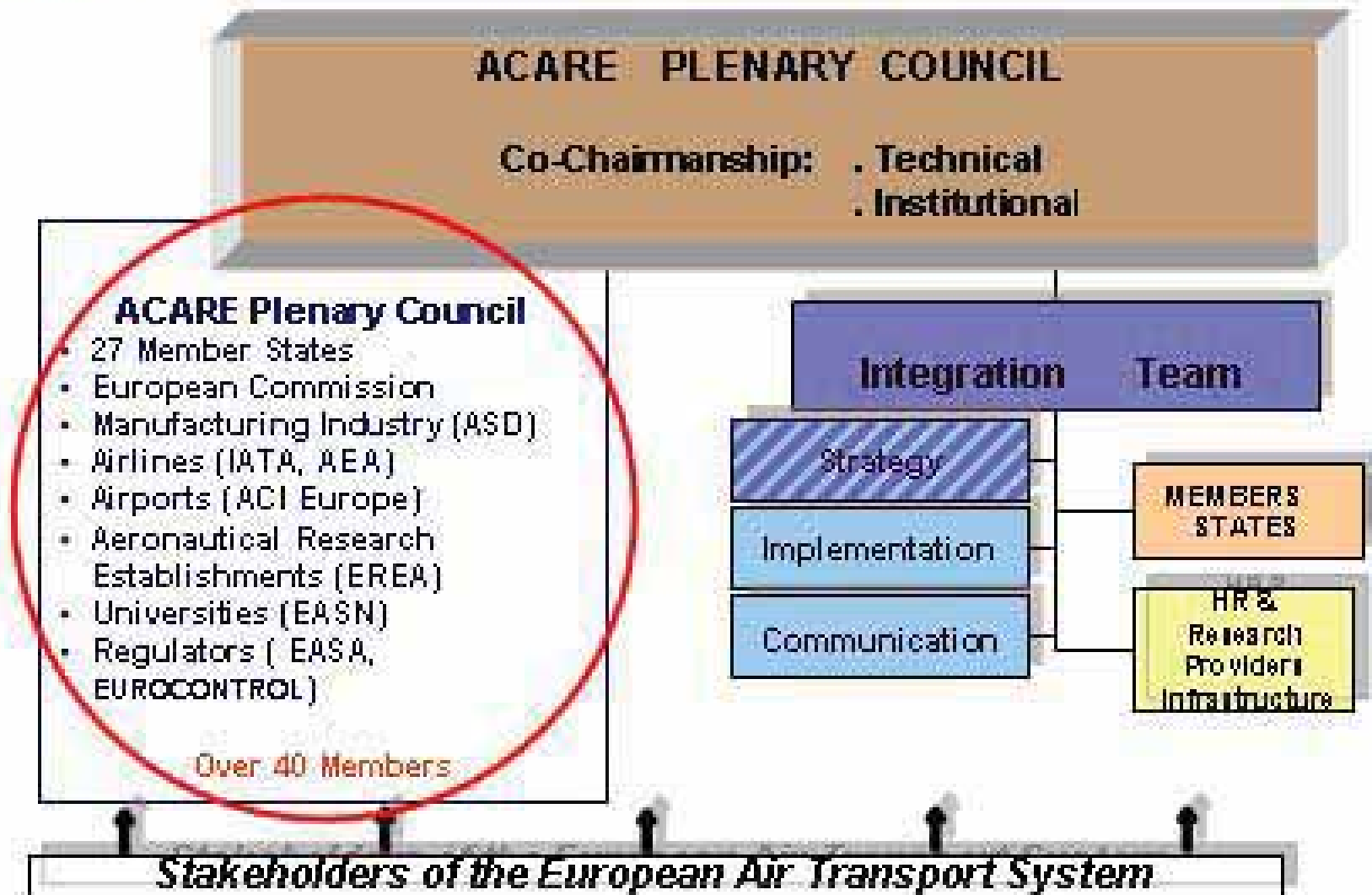


## The Mission of ACARE

**Recognise Establish a network for strategic research in aeronautics and the air transport sector for all European stakeholders**

- **Launch and approve the Strategic Research Agenda (SRA), update it periodically and monitor implementation towards the 2020 vision**
- **Make strategic and operational recommendations and priorities for implementing the SRA and achieving the 2020 Vision**
- **Develop and implement a communication strategy to promote awareness of the SRA**
- **ACARE comprises public and private stakeholders who help ensure shared objectives and commitment both to prepare as well as implement the elements of the SRA**

# ACARE Structure



# The European Strategic Research Agenda for Aeronautics and Air Transport and goals for 2020

**Vision 2020**



**5 Challenges**

**Quality and Affordability**

**Environment**

**Air Transport System Efficiency**

**Safety**

**Security**

**Responding to society's needs**

**Securing global leadership for Europe**

- Halve time to market

- Fall in travel charges

- Passenger choice

- Reduce perceived noise by half

- Reduce NO<sub>x</sub> by 80%

- Reduce CO<sub>2</sub> by 50%

- On time arrival/departure 99% within 15mins

- Increase movements of aircraft x3

- Reduce accident rate by 80%

- Zero successful hijack



## SRA2 - The High Level Target Concepts

An approach for meeting the Goals through themed High Level Target Concepts for the Air Transport System

**Highly Customer Oriented**

**Highly Cost Efficient**

**Ultra Green**

**Highly Time Efficient**

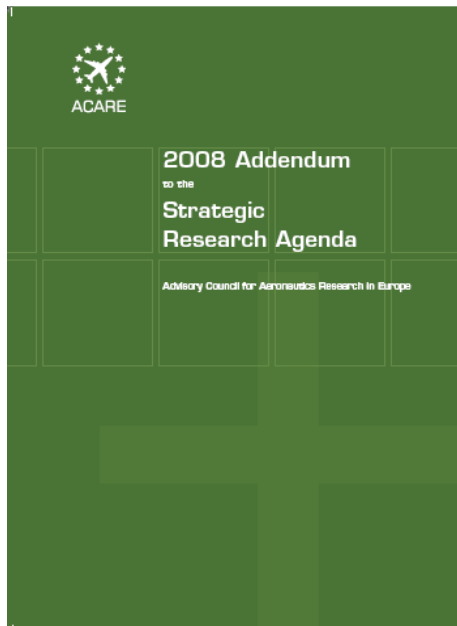
**Ultra Secure**

Published  
October  
2004



All of the goals can be achieved through balanced progress of the HLTCs

## SRA Addendum Recommendations (extract)



**Published  
November 2008**

**SRA 1 & 2 cover all the main issues for the 2020 timescale**

**❑ Some changes of emphasis**

- **Greater intensity of environment**
- **Increased attention to security**
- **Develop alternative fuels in aviation**
- **International Collaboration**

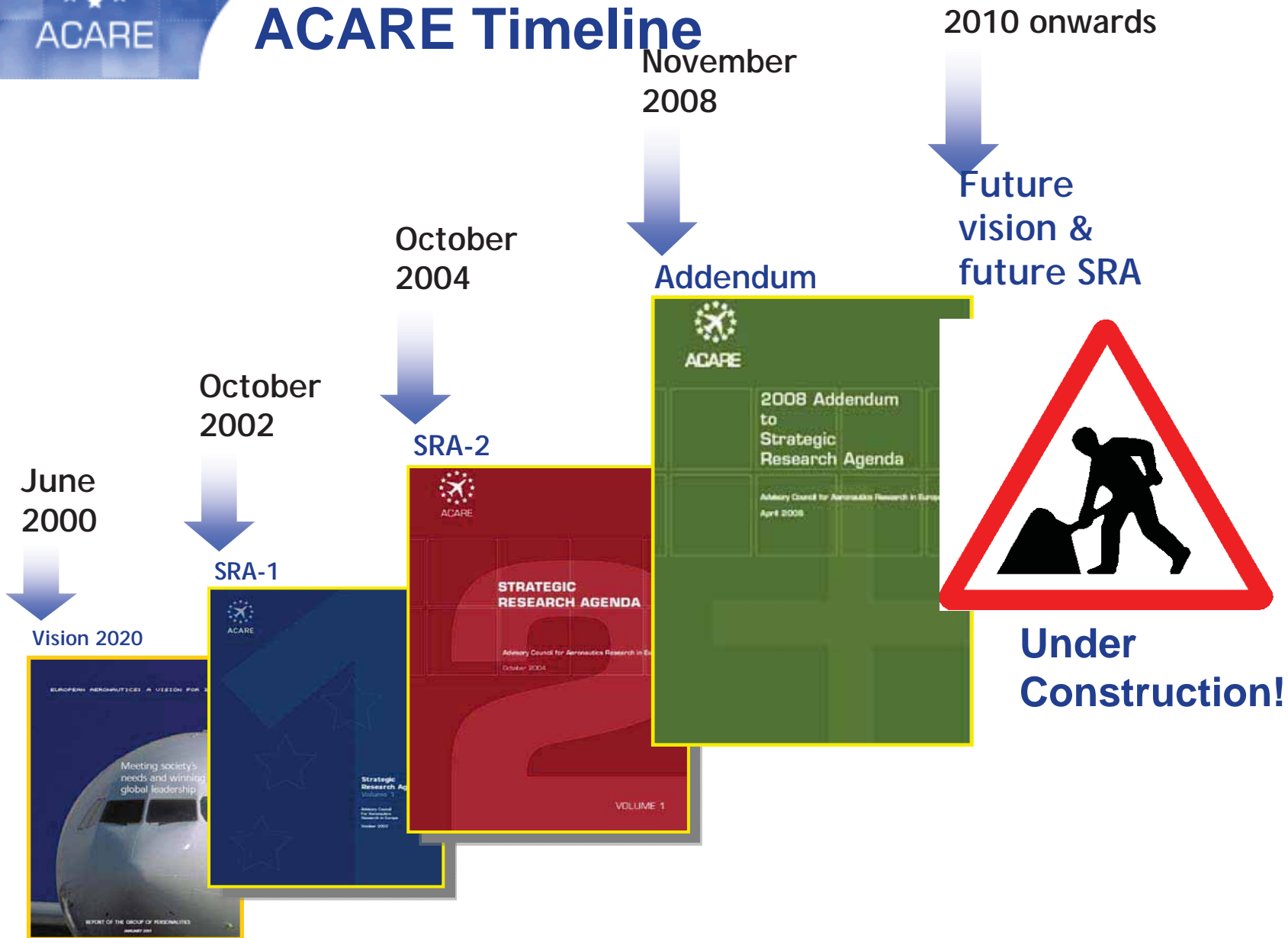
**❑ Consider airspace use of potential air taxi and personal air transport business**

**❑ Consider the role of rotorcraft and autonomous air vehicles.**





# ACARE Timeline





## The New Concepts of the 7<sup>th</sup> Framework Programme

- ❑ ETPs (European Technology Platforms)
  - ❑ Created well before FP7, ACARE is the pioneer of 35 ETPs
- ❑ priority Themes
  - ❑ « Transport (including aeronautics) » is one of the 10 « priority Themes »
  - ❑ Clean Sky JTI, SESAR JU
- ❑ ambitious public-private Joint Undertaking (JU), Joint Technology Initiative (JTI)
- ❑ Joint Programming
  - ❑ With the European Commission and 25 Member States in its Plenary, ACARE has fostered a sort of Joint Programming before the concept was created



## a zoom on ASD, an ACARE stakeholder

- ❑ The manufacturing industry is regrouped under the banner of ASD, the Aerospace and Defence Industries Association in Europe
- ❑ ASD represents the interests of the entire Civil and Defence aeronautics industry in Europe towards the European institutions or entities, including their activities on Space and Security
- ❑ ASD regroups:
  - all activities, design, system engineering, development and test, manufacturing, MRO,..
  - all sizes of Companies from the largest international Groups to smallest aeroSMEs
- ❑ ASD offers structures to support and streamline the activities of its members, such as:
  - R&T Commission, Rotorcraft Sectoral Group, Environment Committee, (airworthiness)
  - **ASD-IMG4** for R&T in Framework Programmes
  - **AeroPortal** for the supply chain
  - EAQG for quality
  - ASD STAN for EU aeronautics industry standards, and ASD CERT for their certification

# ASD represents 30 associations in 20 countries

ASD in detail:  
137 €billion turnover  
Over 2000 companies  
676.000 Employees

