

1H1 / European Research Area

“ National RTD Support Scheme for Aeronautics in France”

*The concerted approach of the
French National Council for Civil
Aviation research (CORAC),*

*aligned with the ACARE common
European reference*

AERODAYS-2011
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<http://www.developpement-durable.gouv.fr/-Secteur-Aerien,1633-.html>



DGAC - Aeronautics Department (DTA-SDC)
Aerodays, Madrid, 2011, March 30th

French Directorate General for Civil Aviation (DGAC)
Ministry of Ecology, Sustainable Development,
Transport and housing (MEDDTL)



Ressources, territoires, habitats et logement
Énergies et climat
Prévention des risques
Développement durable
Infrastructures, transports et mer

Présent
pour
l'avenir

New impetus from « Grenelle Environnement »

- « **Le Grenelle Environnement** »
 - France's environmental round table process launched in July 6th, 2007 and ended late October, 2007 (all sectors concerned).
 - Concerning aviation, the « Grenelle Environnement » recommended in particular that increased R&T efforts Aiming for a greener aviation,
 - in line with the european commonly-shared ACARE ambitious environmental goals,
 - The CORAC Council was officially launched in July 2008 by the Secretary of State for Transports.



CORAC is the national council for Aviation research.

CORAC council membership

- ▶ Under the chairmanship of the Minister in charge of Transports, CORAC gathers all French stakeholders in Civil Aeronautics and Air Transport, represented at highest level (i.e. CEO or chair):
 - Aircraft manufacturers
 - Engine, System and equipment suppliers
 - Airlines
 - Airports
 - Air Navigation Service provider (ANSP)
 - Institutions & professional associations
- ▶ As well as :
 - ONERA
 - and all Ministries concerned by Aeronautics research : Research, Defense, Industry and Finance + Ecology and Transport.



CORAC : Missions and targets

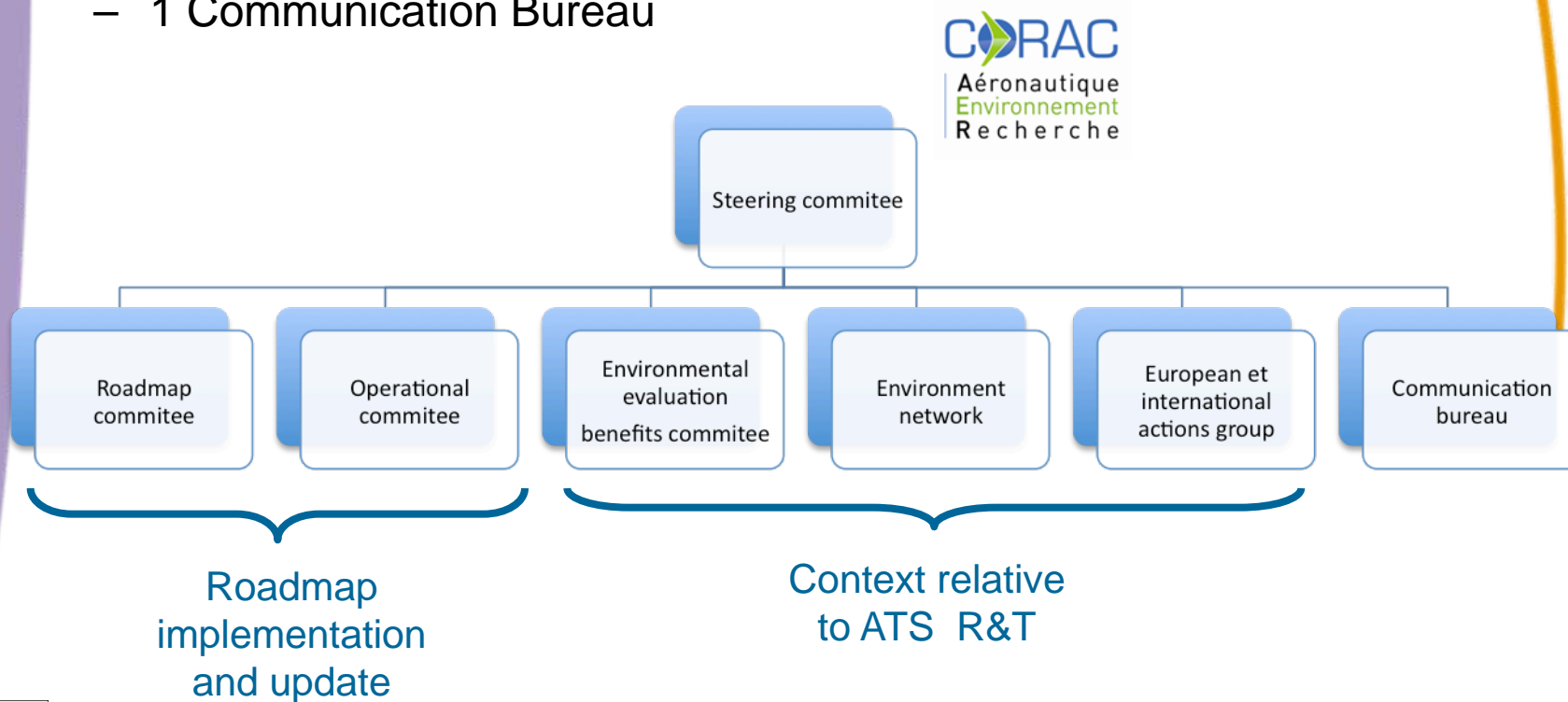
- ▶ Establish a national forum to better coordinate and optimise Aeronautic research efforts to foster aviation Technology breakthroughs and Innovations
- ▶ In line, coherent and complementary to European activities and ACARE ambitious strategy and greening goals set for 2020
 - Cutting CO2 emissions by 50%
 - Reducing NOx emissions by 80%
 - Reducing perceived noise levels by 50%
- ▶ Definition of a Roadmap for R&T efforts (advisory/ strategic role)
- ▶ Commitment from its members to take measures for a concerted implementation of the roadmap. (executive role)

Sustainable development is at the heart of the CORAC approach.

CORAC organisation

- **Organisation Status :**

- 1 steering committee chaired by Marc Ventre, Safran Executive Vice President, Aerospace Propulsion branch
- 5 Working groups and Committees
- 1 Communication Bureau



Wide concertation

- Method based on large consultations, exchanges, knowledge sharing, transparency
- Large aperture beyond aeronautical community (external specialists whenever needed, e.g. climate change, meteorology, other experts ...)
- decisions by the top level representatives of the CORAC members.



Complementary studies to the Roadmap e.g. Mecanisms of environmental impact

Obtain from specialized sectors a strenghtening of studies and research aiming at comprehension and modelisation of Air Transport environmental impact and Climate mecanisms.

Examples of priority topics : combustion products, climate impact, noise propagation, chemical modelisation in an airport environment.



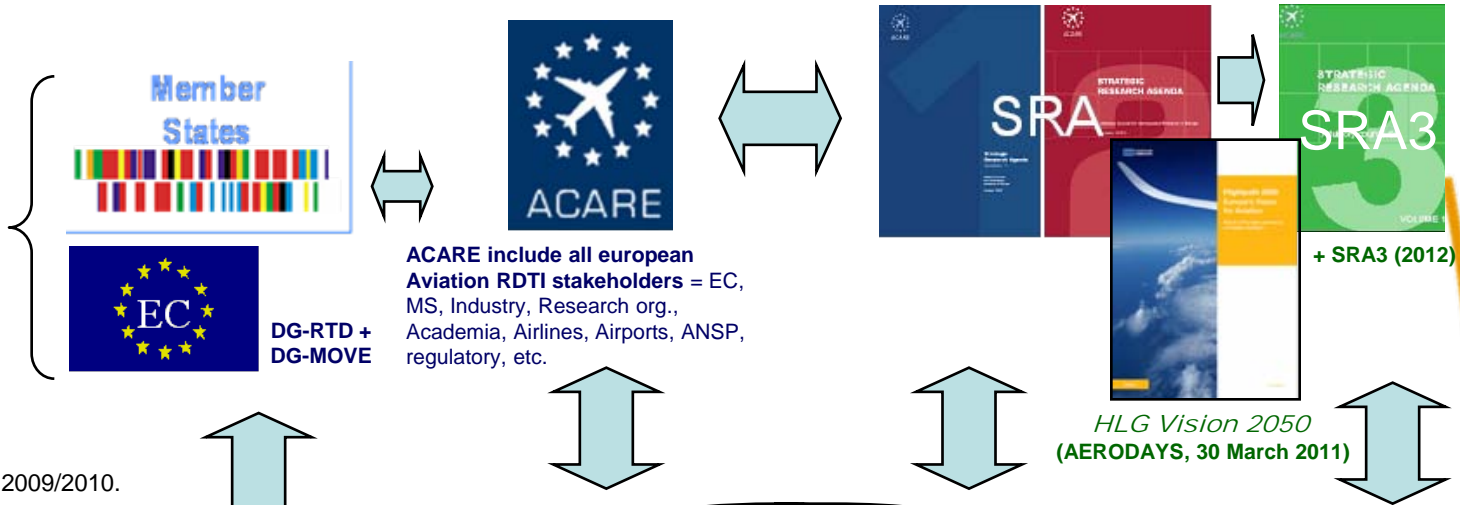
Investments for the future

- In 2010, the French government has decided to raise a national loan to fund the country's strategic priorities over the period to 2030. The aim of this initiative is to invest massively in innovative domains such as Education or Research in order to boost the competitiveness of France.
- The government has set out priorities of the future investment programme worth €35 billion. Through the leverage produced by a mixture of public and private sector financing, the new scheme will make €60 billion available for investment in four key areas: higher education, training and research (€19 billion); industry and SMEs (€6.5 billion); sustainable development (€5 billion); and the digital economy (€4.5 billion).
- Within the 'industry and SMEs' topic, aeronautics is one of the priorities, and this could lead to launch some of the activities identified in the CORAC roadmap.

The concerted approach of 16 ACARE National PTF, aligned with ACARE

About 16 ACARE-like national mirror-platforms

@
European
Level



@
National
& Reg.
Level



The ACARE concerted approach to be pursued for European leadership

Facing ever-greater traditional and emerging competitors from countries displaying new major aeronautical ambitions, the technology leadership of European aviation (in particular w.r.t. Greening) is key and has to be maintained in the future.



The best practices developed through the last decade by the European aviation stakeholders in terms Aviation RTDI, Vision, ACARE, agenda SRA 2020 (now 2050), and Eur/Nat/Reg coordination is a truly virtuous dynamics which is essential to pursue.



Europe will continue to work together towards the preparation of the Future Aviation !



More information



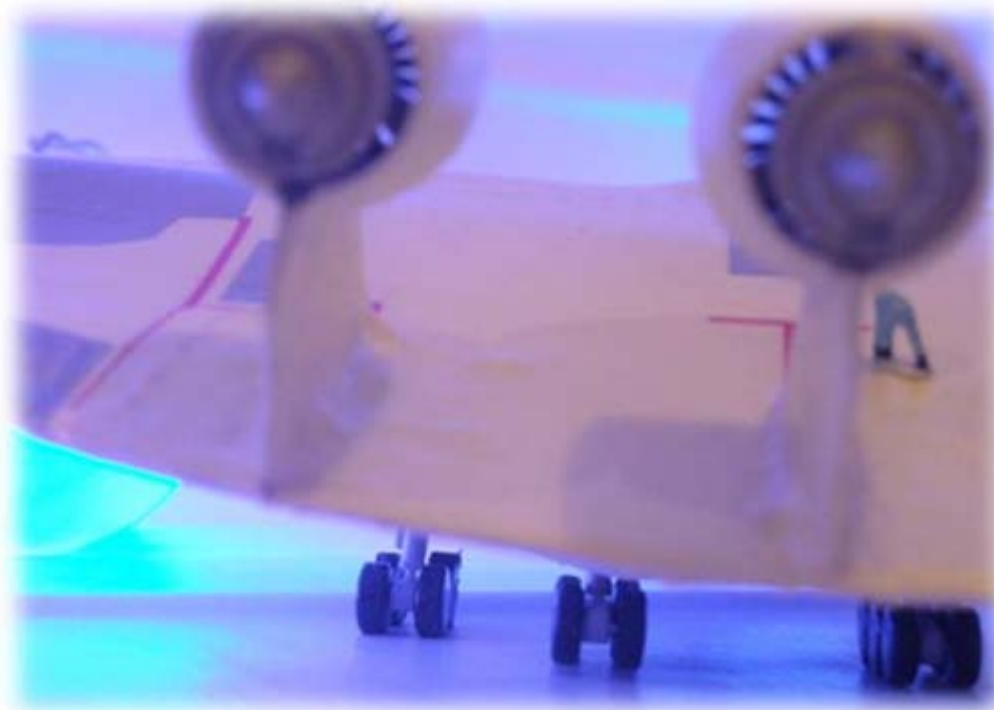
www.acare4europe.com

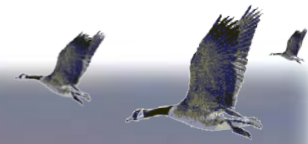


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***Thank you for
your attention***

