

TCA4-CT-2005-516237

CALM II

Advanced Noise Reduction Systems

Coordination Action

Integrating and Strengthening the European Research Area

**PUBLISHABLE
FINAL ACTIVITY REPORT**

Reporting period: from 1st Nov. 2004 to 31st Oct. 2007

Date of preparation : 14th Dec. 2007

Start date of project: 1st Nov. 2004 **Duration:** 36 Months

Project coordinator: Josef Affenzeller, Alfred Rust
AVL List GmbH

1. Project Summary

Noise still belongs to the most concerned environmental pollutants. This is an essential societal problem, and transportation is seen as the primary source. Accepting mobility as a basic human need and as an essential precondition for maintaining economic prosperity and wealth in an enlarging Europe, it is clear that the adverse effects of noise must be reduced while facing a continued increase in freight and passenger transport.

The European Commission has supported the creation of the FP6 Coordination Action “CALM II – Coordination of European Research for Advanced Transport Noise Mitigation”. CALM II is based on the activities and outputs of the FP5 Thematic Network CALM which aimed at establishing a “Community Noise Research Strategy Plan” to ensure co-ordinated and efficient noise research within Europe (“CALM I”, G4RT-CT-2001-05043, Oct. 2001 to Oct. 2004).

The focus of CALM II was directed towards further enhanced and cross-sectoral coordination of the European transport noise research facilitating the networking of organisations, the coordination of activities and the exchange and dissemination of knowledge. A further focus was the updating of the noise research strategy plan.

Therefore, the **objectives** of CALM II were:

- Improved coordination and information exchange between different sectors and stakeholders leading to synergy effects for RTD, a cost effective and cross-sector use of existing noise abatement technologies and new cooperation structures
- Identification of new technology requirements, remaining research needs and setting of targets
- Comparison of European with Third Country status
- Support of the European Commission in setting up the agenda for future transport noise policy
- Support of the Research Advisory Councils in creating a vision and Strategic Research Agenda for future transport research
- Active involvement of promising young researchers
- Dissemination of transport noise state-of-the-art to new member states
- Maintenance and update of CALM homepage and CALM project database
- Promotion/presentation of CALM at international events and via publications
- Stimulation of network-dynamics beyond FP6 (to FP7) to optimise synergies and efficiency of joint RTD and promote further research activities

CALM II was started on 1st Nov. 2004 and ended after three years on 31st Oct. 2007. Co-ordinator of the network was AVL List GmbH (Austria). The members were the chair persons of former and current noise working groups which were established under the umbrella of the EU noise initiative, and representatives of three national research programmes. The work of CALM II was coordinated in nine CALM consortium meetings and several steering committee meetings.

Essential elements of the execution of CALM were public workshops with researchers, project coordinators and other stakeholders. The workshops gave the opportunity for cross-sectoral information exchange, promoting the coordination of European noise research, engaging young

researchers, disseminating results of CALM and other European projects and elaborating new technology requirements and research needs on a broad basis of stakeholders.

Five such workshops plus one final conference were organised and held by CALM within the project period of three years.

The first workshop (in June 2005) had the main focus on the cross-sectoral information exchange with the involvement of coordinators of noise research projects from the three transport modes road, rail and air traffic and from the industry sector dealing with outdoor equipment (construction machinery, cranes, agricultural and forestry machinery, lawn mowers, electric generators, ...).

One workshop (in Sep. 2006 held in Budapest) was dedicated especially to the dissemination of EU noise research in the New Member States

The other three workshops (in Oct. 2005, March 2006 and June 2007) dealt with specifically with technology requirements and future research needs providing important inputs for the updating of the CALM Strategy Paper.

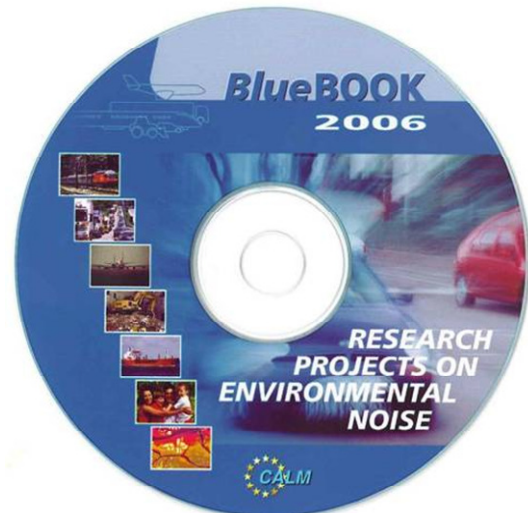
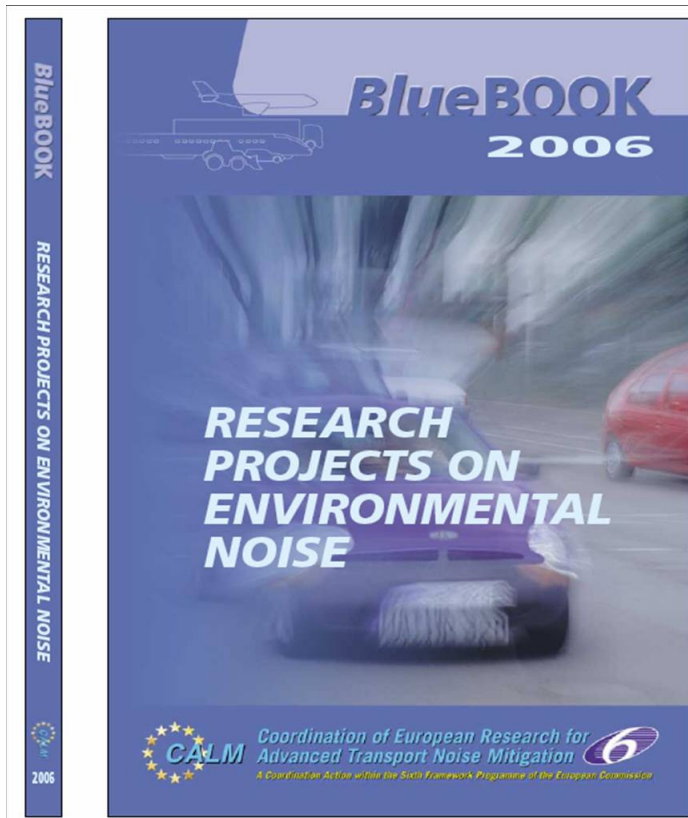
In the final CALM conference (in Oct. 2007), the updated version of the CALM Strategy Paper (issue of Sep. 2007) was presented together with latest information on EU noise policy, EU and national noise research activities and on the strategic research agendas of the European Technology Platforms.

The strong involvement of the European Technology Platforms ERRAC, ERTRAC ACARE and WATERBORNE was an important feature of the CALM work. It enabled to have the CALM results established on a broad basis and well coordinated with the strategic research agendas of the European Technology Platforms.

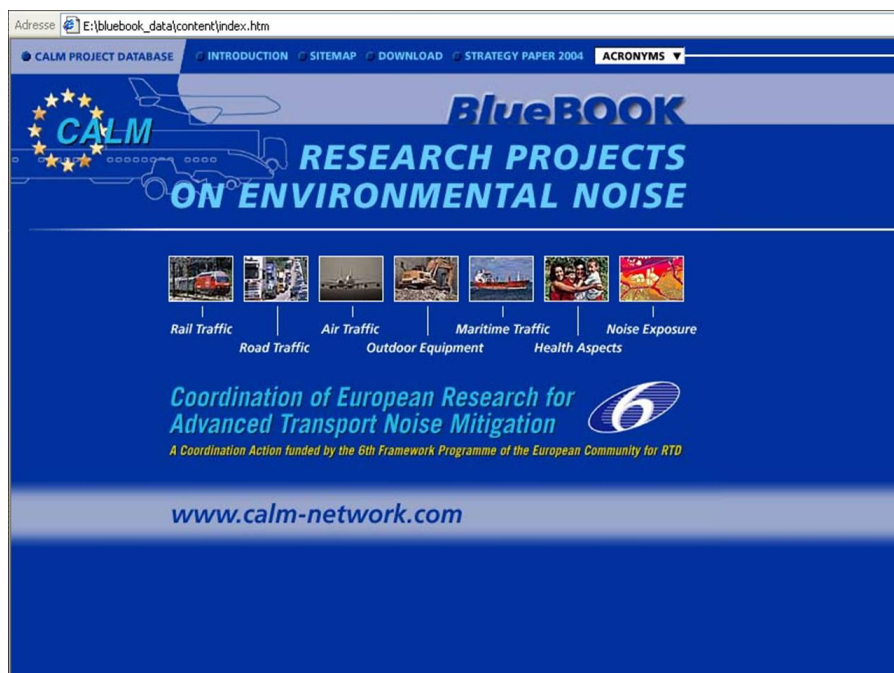
2. Publishable Results

The work of CALM II resulted in the following main publishable outcomes.

- The interactive website www.calm-network was taken over from CALM (I) and adapted to the CALM II requirements including now also a public calendar with dates of CALM activities and other events like international conferences and congresses.
- The project database of CALM (I), a freely accessible inventory of noise research projects on the website, was taken over and updated continuously.
- The “Blue Book”, a booklet with a CD-ROM, is an inventory of most relevant European noise research projects. The CD contains the electronic version of the Blue Book as well as the complete CALM project database (with status of 31st March 2006) for off-line use. The Blue Book was issued in May 2006 with 2000 prints and distributed on workshops and conferences. It is also provided electronically on the CALM website.

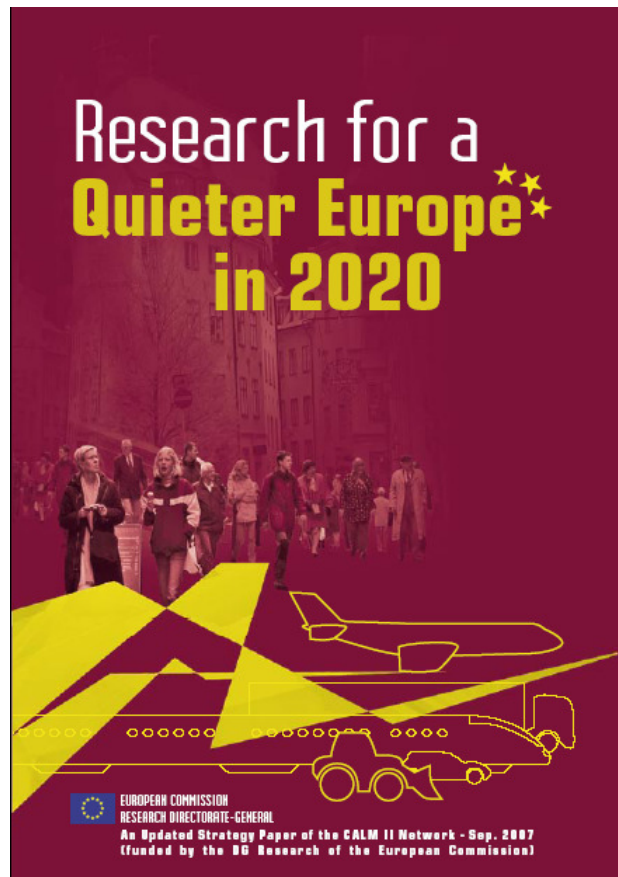


The CALM Blue Book 2006 with the CD-ROM



Start page of the Blue Book on the CD-ROM and the CALM website

- The CALM Strategy Paper representing the Noise Research Strategy Plan was updated twice, based on the edition of Oct. 2004. The first update was an electronic version published on the website in Feb. 2007 for public review and feedback. The second update was issued in Sep. 2007 as printed paper with 3000 prints. The Strategy Paper of Sep. 2007 is to be distributed on workshops and conferences, is also available from the CALM coordinator (on request) and is provided electronically on the CALM website.



CALM Strategy Paper - Sep. 2007

The Strategy Paper of Sep. 2007 titled “Research for a Quieter Europe in 2020” is the most important result of CALM II. The paper describes the European strategy for future research in environmental noise covering the transport modes road, rail and air and the wide sector of outdoor equipment as the major sources of environmental noise. It includes the vision for less noise in 2020, the source-related research targets and technology road maps as well as the research requirements related to noise perception. In addition, the paper gives an overview of the environmental noise in Europe and the EU noise policy with its current legal framework.

- In October 2007, the final CALM Conference “Research and Strategies for Less Noise in Europe” was held in Brussels in order to provide information on current noise research activities and the latest CALM noise research strategy presenting the new Strategy Paper of Sep. 2007.
- All outcomes, workshop reports, presentations and papers mentioned above are available on the CALM website, in most cases under “Public Reports & Information”.



Database of Noise Research Projects Search Form


This database contains Noise Research Projects and related information with special focus on EU projects and national projects within the EU.

Specifications of Search Mode:
The checkboxes of each choice level are linked in OR setup - the choice levels themselves being interconnected in AND setup. To restrict search results, the keyword choice lines are linked in AND mode, but again providing three different keyword combinations in OR linkage.

Example:
Clicking e.g. the topic choice boxes "Passenger train" and "Passenger car", and the D, F and UK national boxes, and the "Actual projects" box, the visitor will find all actual German, French and British national projects concerning road and railway passenger traffic.
To find all projects press only the "SEARCH" button.

Topic Choice (several selections possible)

Rail Traffic:			Find all / or select:
<input type="checkbox"/> Freight train	<input type="checkbox"/> Passenger train	<input type="checkbox"/> High speed train	<input type="checkbox"/> Rail vehicle
<input type="checkbox"/> Rail	<input type="checkbox"/> Track (incl. foundation)		
Road Traffic:			Find all / or select:
<input type="checkbox"/> Powered two-wheeler	<input type="checkbox"/> Passenger car	<input type="checkbox"/> Road	
<input type="checkbox"/> Commercial vehicle (incl. bus)			
Air Traffic:			Find all / or select:
<input type="checkbox"/> Jet aircraft	<input type="checkbox"/> Propeller aircraft	<input type="checkbox"/> Helicopter	
<input type="checkbox"/> Airport area			
Outdoor Equipment:			Find all / or select:



Public Reports & Information

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CALM Workshop "Research in Environmental Noise: FP7 and the New Member States" Budapest, September 13, 2006

Objectives:
Providing information about noise research in the 7th Framework Programme of the European Community for RTD (Research, Technical Development and Demonstration).
Providing information about environmental noise research in the New Member States and promoting involvement of New Member States in FP7.

Workshop Programme and Presentations (PDF for Printout)

Venue: Hotel Radisson SAS Beke
43 Tereza kt. / H-1067 Budapest / Hungary

08:15	Registration and Coffee
09:00	Session 1: Opening (Chairman: Josef Affenzeller, AVL, Austria)
	Welcome & Opening (Josef Affenzeller, AVL, Austria, & Patrick Mercier-Handisyde, DG Research, EC)
	Introduction to CALM (370 kB) (Alfred Rust, AVL, Austria)
	CALM Noise Research Strategy Plan (700 kB) (Alfred Rust, AVL, Austria)

The CALM website www.calm-network.com providing the research "project database" (above) as well as all other essential CALM information and outcomes (below) such as workshop reports, conference presentations, public calendar etc.