

# TRACE

## *TR*affic Accident Causation in Europe



**TRACE** focuses on accident causation analysis and the evaluation of safety benefits of technologies and will

- Provide at the end of the project a comprehensive and understandable definition of accident causation
- Provide the scientific community, the stakeholders, the suppliers, the vehicle industry and the other integrated Safety program participants with a global overview of the road accident causation issues in Europe and promising solutions based on technology
- Make this overview comprehensive, understandable and operational
- Improve the multidisciplinary methodologies in analyzing the influence of human factors and also the statistical methodologies used in risk analysis and evaluation
- Generate summary documents for the identification and validation of the relevance and the evaluation of expected or observed effectiveness of safety functions based on technology
- Support participants of Integrated Projects and STREPs under the umbrella of the Integrated Safety Program
- Establish links with the other projects about road safety (especially SafetyNet and E-Impact)

**More Information:**

[www.trace-project.org](http://www.trace-project.org)

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## Research challenges

- A Diagnosis of traffic safety problems at the European Level with 3 research angles (Road Users – Types of Situations – Risk Factors)
- 3 kinds of analysis : Descriptive statistics – In-Depth analysis – Risk Analysis
- Evaluation of the most promising technologies : ex ante and ex post
- Methodological improvements in Human factors Analysis and Statistical Analysis
- Rely on a set of various accident and exposure databases

## Expected Outcomes

- Operational and methodological reports
- Descriptive and analytical statistics about accident causation
- Qualitative reports on accident causation mechanisms from road user, factor and accident scenario perspectives
- Cooperation with other projects (especially eImpact and SafetyNet)

## eImpact and TRACE

eIMPACT is a Specific Targeted REsearch Project (STREP) that will assess the socio-economic effect of relevant Intelligent Vehicle Safety Systems, or IVSS, and their impact on traffic safety and efficiency. It will also provide an indication of the prospects for introducing IVSS, taking into account these impacts, policy options and stakeholder roles. eIMPACT is part of the EU's Sixth Framework Programme for Information Society Technologies and Media and, with a budget of some € 2.4 million, will run for two years and finish in December 2007. TRACE will provide the accident statistics necessary to the analysis to be carried out in eIMPACT.

As well as cooperating with related 6th Framework projects, eIMPACT has a formal collaborative agreement with TRACE, in work related to understanding, modeling and quantifying the safety impact of systems.

## OBJECTIVES OF THE PROJECT

TRACE focuses on the following objectives:

- The identification and the assessment (in terms of saved lives and avoided accidents), among possible technology-based safety functions, of the most promising solutions that can assist the driver or any other road users in a normal road situation or in an emergency situation or, as a last resort, mitigate the violence of crashes and protect the vehicle occupants, the pedestrians, and the two-wheelers in case of a crash or a rollover.
- The determination and the continuous updating of the aetiology, i.e. causes, of road accidents (as well as the causes of injuries) and the assessment of how the existing technologies or the technologies under current development address the needs of the road users inferred from the accident and driver behaviour analyses.

Project Acronym: **TRACE**  
Project Reference: **IST-2004-027763**  
Contract Type: **Specific Targeted Research Project (STReP)**  
Start Date: **01/01/2006**  
Duration: **24 months**  
End Date: **31/12/2007**  
Project Cost: **4.069.583 €**  
EC project funding: **2.950.108 €**

## Participants:

The consortium is managed by LAB France and consists of 16 partners: AZT, BAST, BASC, CDV, CIDAUT, ELASIS, IDIADA, INRETS, IVT, LMS, LMU, TNO, TUBS, VSRC and VWAG.