



# PROJECT DELIVERABLE



## CASPER

CHILD ADVANCED SAFETY PROJECT FOR EUROPEAN ROADS

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## Summary

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## **ABSTRACT**

This deliverable intends to list all the workshops in which partners of the CASPER project have participated to present some objectives, methods or results of the project. Two kinds of workshops are usually conducted: the ones in which information are transmitted to the audience: results or methods are presented and lead to discussions with experts. Comments and remarks coming from the audience can be then integrated in the following steps of the work conducted by the CASPER project. The second ones are workshops in which specific items are treated and some results of the project used to bring answers or part of answers. This allows to have results from the project integrated into parallel research works conducted by other groups, but also to have inputs from other groups present in the same workshop. This kind of dissemination is complementary to the one of presentation and publications in conferences, presented in the deliverable D.5.1.1.

The context of the child safety is briefly exposed as an introduction of the document, followed by the list and light description of workshops (organizers, objectives, audience) in which CASPER partners have been involved. Presentations are attached in annexes in pdf format.

They are all available on the CASPER Web Site [[www.casper-project.eu](http://www.casper-project.eu)] under the public section “Events” and also accessible via COVER Web Site [[www.biomechanics-coordination.eu/](http://www.biomechanics-coordination.eu/)].

## **CONTEXT**

Child safety in cars is at the moment one of the topics in passive safety for which many organizations are collecting knowledge and research works to be able to update their contribution to its improvement. There is at the same time a proposal of text to introduce a new European regulation for approval of child restraint systems, and consumer organizations that intend to propose some evolutions in their rating protocols for child protection. EPOCH and CASPER are the two research projects running at this time in the frame of the 7<sup>th</sup> framework program of the European Commission. The coordination of their dissemination is assured under the umbrella of the COVER project.

CASPER is having two approaches of child safety in order to be able to propose solutions based on the real need of users. The first one is social approach of safety which is something relatively new in European programs dealing with the topic of protection of children. Results of this part will be used at the same time by the CASPER partners as a basis to construct their proposal of solutions but also by external organizations that will be able to run new awareness campaigns. It is then important to participate to workshops in which results and orientations of the CASPER project could be useful for the organization of future research works or protection evaluation protocols. It's also important for CASPER partners to present the methodologies used in the project in order that they are discussed, improved or validated by some other organizations not belonging to the Consortium. In addition, know that these methods existed and make them available for other research works that could bring complementary data that are compatible with the ones of the Casper project. In the first two year period, CASPER has been involved in three different workshops. They are listed in the next part of the document.

## LIST OF WORKSHOPS

This part of the document is giving the name of workshops in which the CASPER project or some of its results were presented, or reported by some partners. It also describes the aim of the workshops and proposes the presentations or any other information that were dispatched under the name of CASPER in the workshop.

### Child Safety Culture Workshop – 2<sup>nd</sup> December 2009 and 1<sup>st</sup> December 2010, in Munich (Germany)

The CASPER project is considering some socio-cultural aspects, and it was important that method can be shared and discussed with people conducting similar activities (even if sometimes in other domains than child safety). In addition by making some material available, the project was opening the door to new collaborations that could bring new and comparable data to complete the ones gathered internally. Thanks to a good relation between some CASPER partners and the organisers of the International Safety conference on the protection of children in cars, it has been possible to create a half day workshop on the cultural approach of child safety. It takes place the day before the Conference starts and it is free of charge for the people registered at the conference. After the first edition in December 2009, it was decided that considering the interest of the participants of the workshop and the fact that subject treated there are totally complementary of the ones exposed during the Conference, to try to make it annually. The second edition took place in last December, and the time to organize the third edition is nearly coming.

- **2009 – Presentation of CASPER sociological methodology – LANGLOIS & al.**
- **2010 – First results of focus group data held in CASPER – KRISHNAKUMAR & al.**

### COVER dissemination mid-term Workshop -29<sup>th</sup> – 30<sup>th</sup> November 2011 in Munich (Germany).

COVER is a cluster project that is in charge of the co-ordination of works between European projects accepted in the 7<sup>th</sup> framework and that are related to biomechanical works. Two of them are related to the protection of children, Casper on one hand and EPOCh that is in charge of developing a dummy that could used for the improvement of the safety of older children of an approximate age of 10/12 years. Both projects agreed to have a combined mid-term workshop. Discussions took place in both groups, decisions were reported by project leaders and the organization was done by the COVER coordinator. This workshop that is contractually due in the COVER project was organized a couple of days before the International Conference on Child safety in cars in December 2010 in Munich. The announcement of the event was done mainly electronically to the large list of the Casper and Epoch partner's contacts and with the help of the organization staff of the conference (TUV-Sud). It is attached as annex2\_0. The workshop has

been organized according to topics that are treated in both projects. For each of them, the team in charge of this specific topic presented the CASPER's approach, method and results. This leads to 15 presentations on the CASPER side Titles and name of presenters are given below, presentations are attached in the Annex 2.

- ***Introduction – Philippe LESIRE***
- ***Accident analysis – Alan KIRK***
- ***Biomechanical approach – Heiko JOHANNSEN***
- ***Proposed Q3 and Q6 dummy updates for submarining - Paul LEMMEN***
- ***Abdominal injuries assessment – Philippe BEILLAS***
- ***Human body modelling – objectives and specifications – Remy WILLINGER***
- ***Anthropometric and internal geometries – Philippe BEILLAS***
- ***3 year old child human body model – Alexander EISENACH***
- ***Mechanical properties – Remy WILLINGER***
- ***Dummy modelling – Heiko JOHANNSEN***
- ***Misuse – field studies – Gerd MULLER***
- ***Global methodology sociological approach – Reakka KRISHNAKUMAR***
- ***Cultural comparison – Anita FIORENTINO***
- ***Status of activities on test procedures – Heiko JOHANNSEN***
- ***Outlook forecast of future work – Alejandro LONGTON***

## **EURONCAP workshop – Improvement plans for child safety evaluation programs – 15<sup>th</sup> March 2011 in Bergisch Gladbach (Germany)**

EuroNcap is a consumer testing organisation that has been created to inform the public of the performance in crashes of the different cars available on the market by rating them and publishing results since 1997. Since 2003 the protection of children in each tested car is also evaluated and each vehicle receives a score for reflecting its child safety equipment and the performance of the recommended child restraint system in frontal and side impact tests.

Regularly EuroNcap makes a revision of the rating systems used for the protection of different road users in order to ensure that car manufacturers are always proposing satisfying products in terms of safety. As a lot of work has been done in the past years, in the area of child safety (introduction of a new dummy family, research works on children tolerance, procedure works,) the state of the art of the European research project was presented during one of their workshop in March 2011. The Introduction presentation of the workshop is attached in annex 3\_0 in order to explain in which context CASPER partners were asked to bring data. Results from CHILD and CASPER projects were reported and on-going research works to improve the dummies partly conducted in CASPER were also presented. Knowing this, EuroNcap is going to make some proposals of changes in their rating systems for child safety assessment. Presentations are attached in Annex3.

- ***EuroNCAP biomechanical workshop -introduction, Michael van RATINGEN***

- **Q6 dummy characteristics and updates, Paul LEMMEN**
- **CASPER activities related to dummies, criteria and injury risk curves, Xavier TROSSEILLE**

## **PLANS FOR FUTURE WORKSHOPS**

*The following list is of course not exhaustive but CASPER partners already planned to attend some workshops in the coming months. They are listed below with an indication of the people from the CASPER project that could be present on the event.*

### **Setting the future agenda for child occupant protection**

- **2011 September – Prato (I) – Participation and presentation - Philippe LESIRE**

### **Child safety culture workshop**

*The announcement of the conference and workshop is attached in annex 4\_0*

- **2011 – December – Munich (D) – Organization and chairmanship – Philippe LESIRE**
  - **To be confirmed: Presentation of electronic survey results ? Reakka Krishnakumar, Alexander Eisenach**

### **Final dissemination workshop – COVER CASPER / EPOCH**

- **2012 –March – Berlin (D) – Preliminary program available and attached.**

*All results from the CASPER project will be presented on this event that will be combined with the EPOCH final results dissemination event. Both projects leaders are building the event with the help of the co-ordinator of the COVER project. All partners will be involved in the preparation, the promotion and the presentation of the event.*