



Adaptive seat to reduce neck injuries for female and male occupants

ADSEAT

Project overview

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ADSEAT the project

Aims

- Reduce the risk of whiplash injuries by enhanced understanding of injury criteria and development of seat evaluation tools.
- Develop a finite element dummy model of an average female, named EvaRID (Eva – female/RID – Rear Impact Dummy).
- Budget: 3.45 million Euros, 2.5 million Euros from the European Commission, FP7.
- 12 partner
- Duration: 42 months, 2009-2013



ADSEAT Partners



The central graphic displays the logos of ADSEAT partners arranged in two columns. The left column includes: VOLVO (a silver circle with a blue arrow and the word 'VOLVO'), Loughborough University (a purple square with a white 'L' and the text 'Loughborough University'), HUMANETICS Innovative Solutions (a blue circle with a white arrow and the text 'HUMANETICS Innovative Solutions'), faurecia (a blue rounded rectangle with the text 'faurecia'), UNIVERSITÉ DE STRASBOURG (a blue curved line and the text 'UNIVERSITÉ DE STRASBOURG'), and cidaut (a green and blue logo with the text 'cidaut Transport and Energy Research and Development Foundation'). The right column includes: Folksam (the text 'Folksam' in blue), vti (the text 'vti' in red with 'FINDING A BETTER WAY' below it), CHALMERS (the text 'CHALMERS' in blue), LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN (a green square with 'LMU' and the university name), AGU Zürich (a logo with a person sitting in a chair and the text 'AGU Zürich'), and TU Graz (a red cross-like shape and the text 'TU Graz'). To the right of the logos is a grey map of Europe with red dots indicating partner locations in various countries.



Work Packages

WP1 Real-world data,
Dr Wolfram Hell, LMU

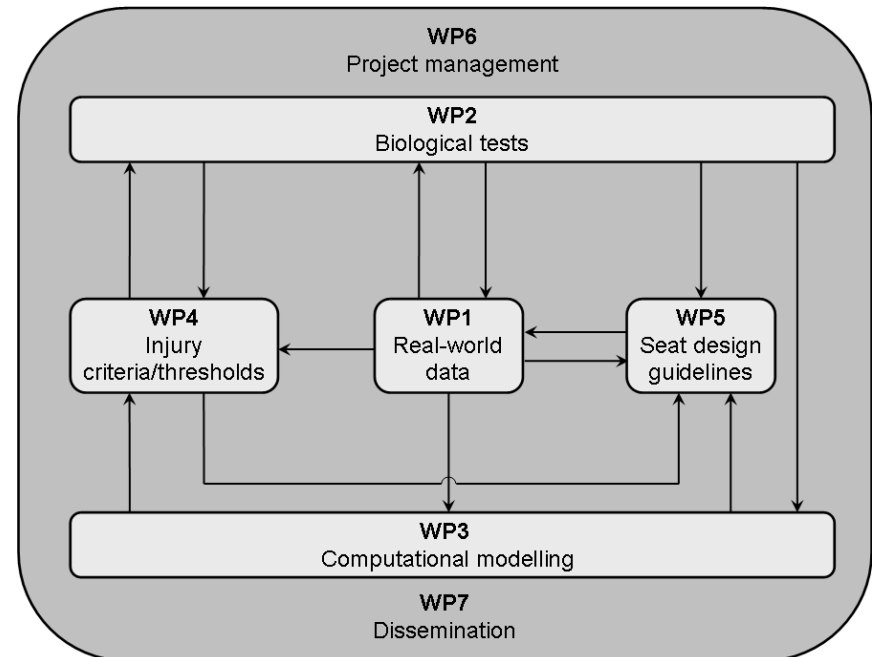
WP2 Biological tests,
Prof. Mats Svensson, Chalmers

WP3 Computational modelling,
Mr Paul Lemmen, FTSS

WP4 Injury criteria / thresholds,
Dr Kai-Uwe Schmitt, AGU

WP5 Seat evaluation guidelines,
Prof. Hermann Steffan, GUT

WP6 Management and **WP7** Dissemination,
Dr Astrid Linder, VTI



EvaRID

Platform for implementing research findings in ADSEAT

WP1 Real World Data

- Size selection



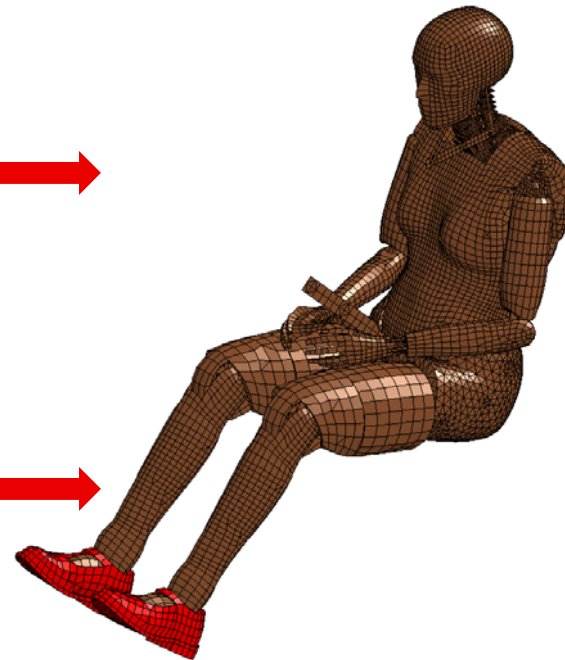
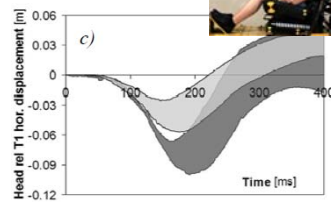
WP4 Assessment Criteria & thresholds

-Threshold values



WP2 Biological Tests

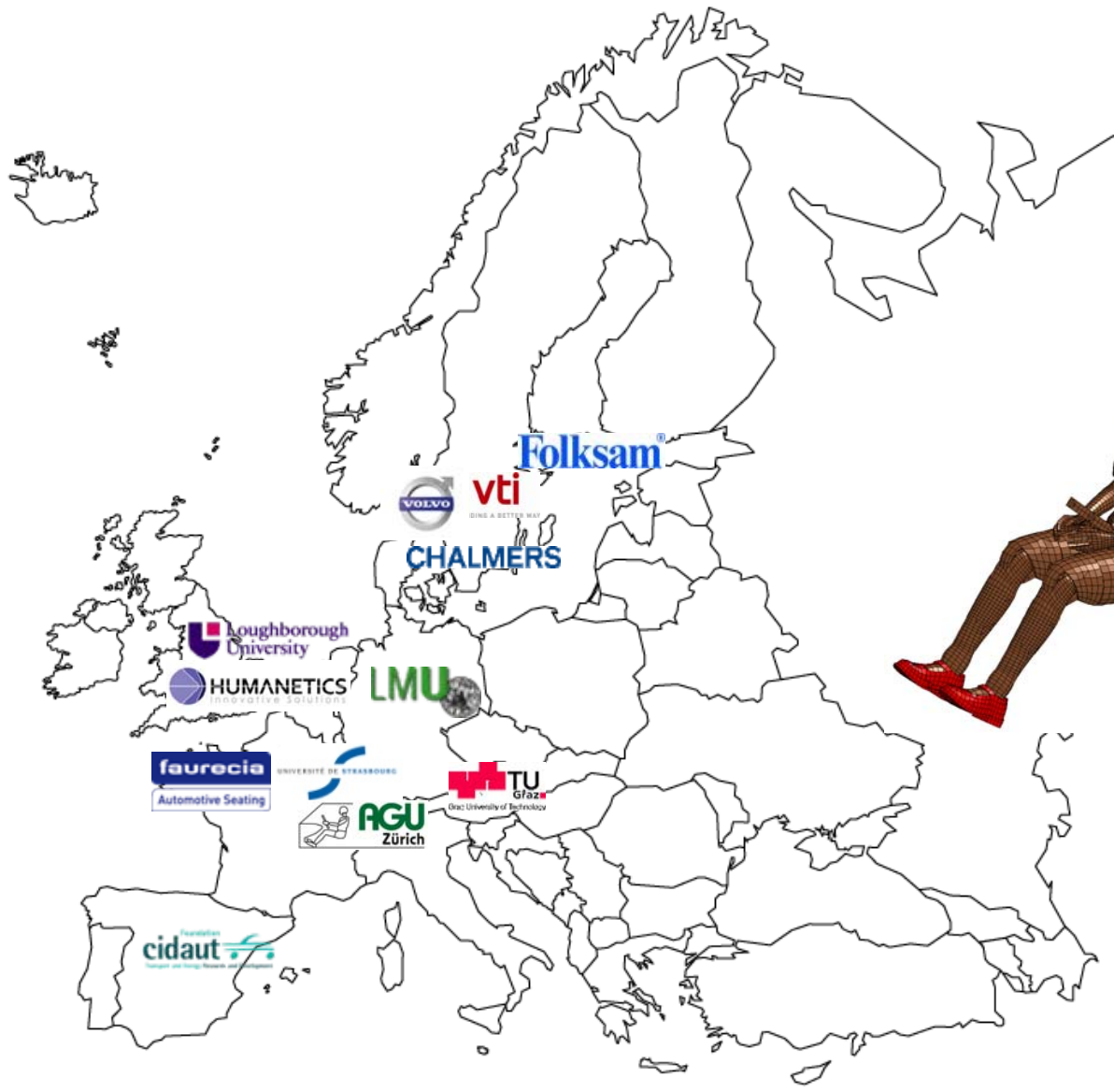
- Anthropometry
- Response corridors



WP5 Seat design

-Use model in evaluation studies





www.adseat.eu