




BP5: PTW Design and Protective Equipment

Reference: BP5 018	Title of Project:	APROSYS; Integrated Project on <u>A</u>dvanced <u>P</u>rotection <u>S</u>ystems
Version: 1	Website:	http://www.aprosys.com/
Brief Description of Project:	<div data-bbox="402 779 954 974" data-label="Image"> </div> <p>The APROSYS Integrated Project (6th Framework Programme) on Advanced Protective Systems will focus on scientific and technological development in the field of passive safety.</p> <p>The field of passive safety concerns in particular human biomechanics (injury mechanisms and criteria), vehicle and infrastructure crashworthiness and occupant and road user protection systems.</p> <p>In particular, the subproject SP4"Motorcycle accidents" has the following research objectives:</p> <ul style="list-style-type: none"> • Identification of the main accident scenarios for motorcyclists • Injury characterization for motorcyclists in the selected accident scenarios • Proposal of a new test procedure for rider-infrastructure interaction • Guidelines to design motorcyclist friendly roadside infrastructure • Design concepts for innovative motorcyclist protective equipment <p>APROSYS outcomes are:</p> <ul style="list-style-type: none"> • New injury criteria and injury tolerance • New mathematical models of the human body • New world-wide harmonized crash dummy • New knowledge and tools for intelligent safety systems • Enhancement of virtual testing technology • New test methods and advanced protection systems for injury reduction in most relevant accident types 	

	 <p>Dissemination of the project findings will be managed in the following ways:</p> <ul style="list-style-type: none"> • External newsletter on website • Flyers on website • APROSYS Workshops open for outside APROSYS guests • Contribution to international conferences • Deliverables on website. <p>The project started in 2005 and will end in March 2009.</p>
Monitoring Data:	The APROSYS methodology uses both casualty data and performance testing.
Results:	<p>The APROSYS Final Event will take place on the 17th and 18th of February 2009 in Amsterdam. The results of the project will be demonstrated and presented.</p> <p>On the first day the main conclusions of the project are going to be presented. A panel session will discuss how the APROSYS results can be implemented to address the challenges articulated by the EU and industry.</p> <p>On the second day two parallel interactive workshop sessions will be organised focussing on how the new technologies and methods developed in the APROSYS Project can be used to influence and improve the protection of all road users. Attention will be given to the regulatory, infrastructural, technical and commercial aspects. Also, the process after the White Paper on European transport policy for 2010 will be addressed.</p>
Key Effective Conclusions:	Whilst the APROSYS project is not restricted to PTW safety, the SP4 element could provide new and valuable guidance and standards for those seeking to reduce motorcycle casualties.
Projects for Comparison:	Saferider (BP5 016). Watchover.
Justification:	The results of the APROSYS project, once published and fully assessed, may provide valuable information on PTW safety for policy makers and practitioners. There appears to be potential to contribute to several eSUM Work Packages and progress should be monitored.