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SIM

Safety In Motion

Project details	
Domain	Vehicle Technology: Active Safety
Duration	from 01/09/2006 until 31/08/2009
Website	
Other sources	Cordis Transport Research & Innovation Portal  Project overview and results

The objective of **SIM** project is to develop an innovative vehicle with new safety devices that will result in the decreasing of the number of Powered-Two-Wheelers accidents and related consequences for riders. Over 6000 fatalities on European roads in 2001 are related to the PTW's. Compared to the overall number of victims on the roads, this figure represents 15% of this dreadful aspect of our society. The European Commission has launched the 3rd European Road Safety Action Plan with the ambitious goal of halving the fatalities in 2010. The medium term objective is to cut by around 75% the number of persons killed or severely injured by 2025, while the long term vision is to render road transport as safe as all other modes. To this goal, the motorcycle Industry will play a role in improving the safety features of its products, while keeping their characteristics of versatility.

An integrated approach to the complex concept of motorcycle safety would establish a matrix relationship between the three main factors or pillars for safety (PTW, rider and infrastructure) and the different aspects related to accident dynamics, from before-precipitating event to crash event, dealing with preventive, active and passive safety. This approach is believed to be a very efficient way to describe each different area in which improvement is possible and reach the goal fixed by EC Roadmap for 2010.

Main objectives of **SIM** are:

- to identify a suitable safety strategy for Powered-Two-Wheelers;to identify a suitable safety strategy for Powered-Two-Wheelers;
- to enhance active and preventive safety acting on electronic vehicle management and improving Human-Machine-Interaction;to enhance active and preventive safety acting on electronic vehicle management and improving Human-Machine-Interaction;
- to focus on integral passive safety devices;to focus on integral passive safety devices;
- to integrate all aspects in a prototype Innovation aspects are dealing with the development of electronic active devices for PTW's;to integrate all aspects in a prototype Innovation aspects are dealing with the development of electronic active devices for PTW's;
- the development of a safety algorithm to activate passive safety devices adaptation of protective inflatable devices and an integrated approach to solve safety issues for PTW's.the development of a safety algorithm to activate passive safety devices

adaptation of protective inflatable devices and an integrated approach to solve safety issues for PTW's.

Coordinator

- [Piaggio & C. S.p.a.](#) (IT)

Partners

- [University of Pisa](#) (IT)
- [Savatech Industrial Rubber Products and Tyres d.o.o.](#) (SI)
- [Öhlins Racing AB \(OHLINS\)](#) (SE)
- [Prendas Deportivas NZI S.L.](#) (ES)
- [DEKRA - Safety in Knowledge](#) (DE)
- Dalphimetal ESPANA, S.A. (ES)
- [CTU in Prague - Faculty of Transportation Sciences](#) (CZ)
- [Fiat research centre](#) (IT)
- [Continental Automotive Systems](#) (DE)
- [CIDAUT - Centre for Automotive Research and Development](#) (ES)
- [The University of West Bohemia](#) (CZ)