Innovative concepts for smart road restraint systems to provide greater safety for vulnerable road users

Fact Sheet

Project information

SMART RRS
Grant agreement ID: 218741
Status
Closed project
Start date
3 November 2008
End date
2 May 2012

Funded under:
FP7-TRANSPORT
Overall budget:
€ 3,362,397.23
EU contribution
€ 2,193,662

Coordinated by:
UNIVERSIDAD DE ZARAGOZA
Spain

Objective

Recent figures from WHO and ETSC reveal frightening statistics on road traffic accidents across Europe and beyond • 1.2 million people worldwide are killed in road crashes each year with up to 43,000 dying in Europe • Up to 50 million are injured with at least 600,000 hospital admissions on a European level directly attributed to road traffic accidents. This costs European society approximately 160 billion euro and uses up 10% of all health care resources • With increased mobilization, these figures will increase by about 65% over the next 20 years unless there is new commitment to prevention. • This would mean that by 2020 road traffic injuries will be the third leading contributor to the global burden of disease and injury. – World Report on Road Traffic Injury Prevention [WHO, 2004] Report on European Road Transport Safety [Prof. Mackay, ETSC, 2000] Many injuries and deaths are a result of impacts with current road restraint systems especially in the case of vulnerable road users such as motorcyclists, cyclists and passengers where impacts with supports or edges usually result in amputations or sectioning of torsos in a guillotine effect. Furthermore once an accident has occurred; the time between the impact and receiving immediate initial first aid can be crucial; delays in alerting emergency services or incorrect location information given to emergency can cause waste life saving moments for injured people or even result in emergency services going to the wrong location of the accident. This project will develop a new smart road restraint system that will reduce the number of deaths and injuries caused in road traffic accidents by integrating primary and tertiary sensor systems in a new RRS system; providing greater protection to all road users, alerting motorists and
emergency services of danger so as to prevent accidents happening, and alerting them of accidents as they happen to maximise response time to the exact location of the incident.

Field of Science

/social sciences/social and economic geography/transport
/social sciences/economics and business/economics/sustainable economy
/social sciences/sociology/governance/public services

Programme(s)

FP7-TRANSPORT - Specific Programme "Cooperation": Transport (including Aeronautics)

Topic(s)

SST-2007-4.1-06 - Intelligent Road Restraint System (RRS)

Call for proposal

FP7-SST-2007 RTD-1

See other projects for this call

Funding Scheme

CP-FP - Small or medium-scale focused research project

Coordinator

UNIVERSIDAD DE ZARAGOZA
Address
Calle Pedro Curbuna 12
50009 Zaragoza
Spain
Activity type
Higher or Secondary Education Establishments
EU Contribution
€ 660 882

Website
Contact the organisation

Administrative Contact
Oscar Lopez Lorente (Mr.)

Participants (10)
IDIADA AUTOMOTIVE TECHNOLOGY SA
Spain
EU Contribution € 228 900
Address L Albornar 43710 Santa Oliva
Activity type Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website Contact the organisation
Administrative Contact Victoria Domingo (Ms.)

INSTITUTO DE INVESTIGACION SOBRE REPARACION DE VEHICULOS SA*
Spain
EU Contribution € 95 690
Address Carretera Nacional 232 Km 273-3 50690 Pedrola
Activity type Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website Contact the organisation
Administrative Contact Juan Luis De Miguel (Mr.)

SISTEMAS DE PROTECCION PARA SEGURIDAD VIAL SL
Spain
EU Contribution € 78 000
Address Tr Camino Monzalbarba 32 50011 Zaragoza
Activity type Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website Contact the organisation
Administrative Contact Ignacio Palacios (Mr.)
<table>
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<th>Country</th>
<th>EU Contribution</th>
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<td>FEDERATION OF EUROPEAN MOTORCYCLIST ASSOCIATIONS</td>
<td>€ 110 260</td>
<td>Rue Du Champs 62, 1040 Bruxelles</td>
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<td>UNIVERSITA DEGLI STUDI DI FIRENZE</td>
<td>€ 279 264</td>
<td>Piazza San Marco 4, 50121 Florence</td>
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MOUCHEL LIMITED

Address
Export House, Cawsey Way
Gu21 6qx Woking

Activity type
Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)

Website
Contact the organisation

Administrative Contact
Andrew Pearce (Mr.)

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