



SAFESPOT

COOPERATIVE SYSTEMS
FOR ROAD SAFETY



SAFESPOT

*Co-operative Systems for Road Safety
"Smart Vehicles on Smart Roads"*

Autonomous vehicle based safety systems are limited by the field of view of their sensors. Cooperative systems using communication between vehicles (V2V) and in the infrastructure (V2I) via can considerably enhance this field of view, thus leading to a breakthrough for road safety.

The objective is to prevent road accidents developing a "Safety Margin Assistant" that:

- detects in advance potentially dangerous situations,
- extends "in space and time" drivers' awareness of the surrounding environment.



More Information:

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Description of the work

The basic concept of SAFESPOT is to use both vehicles and infrastructure as sources and destination of safety-related information.

This information allows to expand the "safety margin", e.g. the time between the detection of a potential danger and the real accident, from the range of milliseconds up to seconds.

This extension, named "green area", will reduce the risk of an accident to occur, as more time will be given to drivers to realise potential dangers and to undertake appropriate manoeuvres (see figure).

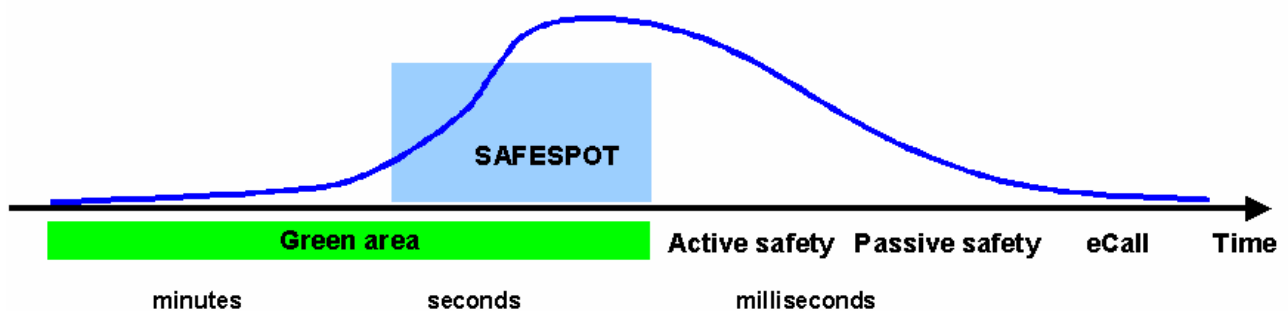
The Integrated Project is structured in 8 Subprojects and 5 test site in different European countries.

MAIN ACTIVITIES

- To develop the key enabling technologies:
 - ad-hoc dynamic networking
 - accurate relative localisation
 - dynamic local traffic maps.
- To develop a new generation of infrastructure-based sensing techniques.
- To develop and test scenario-based applications in order to evaluate the technical aspects as well as the impacts and the end-user acceptance.
- To define the practical implementation of such systems
- To evaluate the liability, regulations and standardisation issues which can affect the implementation

Project Acronym: **SAFESPOT**
Project Reference: **IST-2004-026963**
Contract Type: **Integrated Project (IP)**
Start Date: **01/02/2006**
Duration: **48 months**
End Date: **31/12/2010**
Project Cost: **37.903.960 €**
EC project funding: **20.590.972 €**

Impact on Fatalities Reduction



Participants:

The consortium includes 50 partners from 12 different European countries (Italy, Germany, France, UK, Spain, Sweden, the Netherlands, Finland, Belgium, Greece, Poland, Hungary) among car makers, suppliers, road operators, service providers, universities and research institutes.

The project is coordinated by Centro Ricerche Fiat (I) and led by a Core Group consisting of Anas(I), Bosch(D), Cofiroute(F), Daimler Chrysler(D), Magneti Marelli(I), Renault(F), TNO (NL) and Volvo Technology Corporation(S).