SARTRE
Project ID: 233683
Funded under: FP7-TRANSPORT

Safe Road Trains for the Environment; developing strategies and technologies to allow vehicle platoons to operate on normal public highways with significant environmental, safety and comfort benefits

From 2009-09-01 to 2012-10-31, closed project

Project details

<table>
<thead>
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<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 6 933 054</td>
<td>SST.2008.6.0.3. - Encouraging step changes / radical technology changes</td>
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<tr>
<td>EU contribution:</td>
<td>Funding scheme:</td>
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<tr>
<td>EUR 3 837 129</td>
<td>CP-FP - Small or medium-scale focused research project</td>
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<td>Coordinated in:</td>
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<td>United Kingdom</td>
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Objective

The project aims to encourage a step change in personal transport usage through the development of environmental road trains (platoons).

Systems will be developed that will facilitate the safe adoption of road trains on un-modified public highways with full interaction with non-platoon vehicles. These systems will be developed as prototype systems.

A scheme will be developed whereby a lead vehicle (initially a commercial truck) with a professional driver will take responsibility for a platoon. Following vehicles will enter a semi-autonomous control mode that allows the driver of the following vehicle to undertake other activities that would normally be prohibited for reasons of safety; for example, operate a phone.

The programme will address the 3 cornerstones of transportation issues, environment, safety and congestion while at the same time encouraging driver acceptance through the increased “driver comfort”. The programme is addressing a concept that as a whole will facilitate a step change in the use of private transportation. The consideration of how platoons interact with other non-platoon users is a critical facet of the programme.

A further unique element of the programme is the interaction between the lead vehicle and the following vehicles and how this can lead to a new business model for road use. I.e. following vehicles may be charged to join a platoon.

The introduction of platooning on normal roads with private vehicles will achieve environmental benefits (with an estimated 20% emissions reduction), safety benefits (reduction of accidents caused by driver action) and a reduction on congestion (smoother traffic flow with potential consequential increase in throughput).

Related information

Report Summaries

Periodic Report Summary - SARTRE (Safe road trains for the environment; developing strategies and technologies to allow vehicle platoons to operate on normal public highways )

Periodic Report Summary 2 - SARTRE (Safe road trains for the environment; developing strategies and technologies to allow vehicle platoons to operate on normal public highways ...)
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See on map

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