HOST
Project ID: 12555
Funded under: FP6-SUSTDEV

Human Oriented Sustainable Transport mean

From 2005-01-01 to 2009-02-28 | HOST Website

Project details

<table>
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<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 3 137 399</td>
<td>SUSTDEV-2003-3.2.2.2.6 - Research domains 2.5 and 2.6 for all surface transport modes, domain 2.2 for new product generations only, and domain 2.7 for rail transport only</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<td>EUR 2 000 000</td>
<td>FP6-2003-TRANSPORT-3</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Italy</td>
<td>STREP - Specific Targeted Research Project</td>
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Objective

The HOST project aims at developing an innovative modular transport mean suitable for the urban transport of persons and goods. In order to fulfill simultaneously the objectives of extremely low CO2, gaseous and particulate pollutants reduction, within a medium term, the HOST sortium will produce multipurpose modular vehicle platforms (HOST) capable to integrate, in an optimised and cost effective way, the most promising alternative fuel set, and the newest combustion modes technologies. The possibility to easily vary the platform main dimension enables HOST to be equipped with very different bodyworks, which let the car manufacturer provide both private and public companies (i.e. municipalities or authorities for urban mobility) with new services for mobility and goods displacement in towns, organising in a sustainable and more rational way the urban motorised traffic. The HOST cept leads towards a decrease of the hybrid vehicle costs, thanks to its unique re-using characteristic, that enables the vehicle to be exploited for several missions, simply changing the (passengers, goods) cabin. HOST powertrain has a thermal-electric series hybrid figuration and the chassis houses all the powertrain components in shaped boxes. A full drive by wire solution will be adopted and the only mechanical nections between the cabin and the platform will be a specific designed mechanical anchorages system to secure them together. These solutions will allow the easy installation/removal of any cabin, giving the vehicle the best possible handling performances. A deep investigation of the possible cabins will be made. Passengers cabins will be studied under safety, aesthetic and ergonomic point of view. At the same time freight cabins will be studied to host the most advanced horizontal transhipment facilities, to make easy, fast and semi-automatic the transhipment of the pallets from the cabin to any warehouse, train wagon or loading unit and vice-versa.

Related information

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<th>Result In Brief</th>
<th>Clean, green traffic-busting machine</th>
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<td>Report Summaries</td>
<td>Sustainable city mobility</td>
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Subjects

Industrial Manufacture - Transport

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