Acoustically Green Road Vehicles and City Areas

From 2010-01-01 to 2012-12-31, closed project

**Project details**

<table>
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<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<td>EUR 5 112 760</td>
<td>SST.2008.1.1.3. - Holistic noise and vibration abatement</td>
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<th>EU contribution:</th>
<th>Call for proposal:</th>
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<tr>
<td>EUR 3 499 850</td>
<td>FP7-SST-2008-RTD-1</td>
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<td>[See other projects for this call]</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Sweden</td>
<td>CP-FP - Small or medium-scale focused research project</td>
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**Objective**

The CITYHUSH project will support city administrations in the production and implementation of noise action plans according to the directive EC 2002/49.

The identified hot spots and noise acting plans made with the existing technology suffer from major shortcomings:

1. poor correlation between hot spots with annoyance and complaints;
2. most measures lead to increased emissions;
3. only indoor noise comfort is addressed.

Step change solutions are proposed to reduce noise in the city environment. The project deals with developing suitable problem identification and evaluation tools and with designing and developing solutions for hot spots, which show high correlation with annoyance and complaints.

Following innovative solutions and tools will be developed:

1. Concept of Q zones (zones in inner where only quiet low emission vehicles are tolerated).
2. Concept of parks embedded in Q zones.
3. Improved noise score rating models for indoors by integrating low frequency noise and the occurrence of high noise single events.
4. Noise score rating models for the outdoors.
5. Objective and psychoacoustic evaluation tool for low noise low emission vehicles.
12. Active and passive noise attenuation measures within the tyre hood.
13. Solutions for high low frequency absorption at facades of buildings.
14. Solutions for high low frequency isolation in the propagation pad.

All the above solutions and tools will be designed, prototyped and validated. They will result in obtaining the anticipated noise impacts.

**Related information**

| Result In Brief | Reducing noise in cities |
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**Subjects**

Transport

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