QUIetening the Environment for a Sustainable Surface Transport

Fact Sheet

Project information

QUIESST
Grant agreement ID: 233730
Status
Closed project

Start date
1 November 2009
End date
31 December 2012

Funded under:
FP7-TRANSPORT
Overall budget:
€ 2 594 079.20
EU contribution
€ 1 948 968

Coordinated by:
ACOUSTIC TECHNOLOGIES SA
Belgium

Objective

Noise Reducing Devices (barriers, claddings, covers and added devices following EN14388) play an important role in noise reduction: optimizing their global performance is of major concern towards Sustainable Surface Transport. QUIESST will merge, for the very first time and within a true holistic approach, “true” intrinsic products characteristics, whatever their materials and shapes, together with their extrinsic ones, in order to assess their actual global capacities to reduce the amount of people exposed to noise (END target). It will address 5 main topics: NEAR / FAR FIELD RELATIONSHIP: linking the intrinsic characteristics to the corresponding extrinsic far field effect; IN-SITU MEASUREMENT METHODS: developing methods relevant of the actual intended use, allowing long term performances control; COMPARING NRD’s PERFORMANCES with different test methods: building a database comparing both existing and new tests results and providing the relevant relationship; OPTIMIZING NRD’s GLOBAL PERFORMANCE through a HOLISTIC APPROACH: considering acoustic, non acoustic and global impact optimization, multicriteria optimization strategies, and possible global performance indicators; SUSTAINABILITY: defining the relevant generic criteria and developing the first existing NRD’s overall sustainability assessment method. The final verifiable result will be the ACTUAL USE of the “Guidebook to NRD optimisation” as a reference tool for noise mitigation. QUIESST addresses the call as it concerns surface transport noise abatement (road AND rail), considers cost benefit analysis and addresses the END
objectives, covers true holistic noise abatement solutions through wave propagation and systems for passive compensation. Its team, made of 14 partners from 9 countries integrates the relevant stakeholders: Infrastructures, Industry, Universities, Research Institutes and SME. It addresses important environmental and economic concerns and will contribute to promote EU NRD’s industry.

**Field of Science**

/social sciences/other social sciences/social sciences interdisciplinary/sustainable development
/social sciences/social and economic geography/transport

**Programme(s)**

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

**Topic(s)**

**SST.2008.1.1.3. - Holistic noise and vibration abatement**

**Call for proposal**

FP7-SST-2008-RTD-1

See other projects for this call

**Funding Scheme**

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

**Coordinator**

**ACOUSTIC TECHNOLOGIES SA**

Address  
Avenue Brugmann 215  
1050 Bruxelles  
Belgium

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

EU Contribution  
€ 184 047

Website

Contact the organisation

Administrative Contact  
Jean-Pierre Clairbois (Mr.)

**Participants** (13)
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<th>Administrative Contact</th>
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EU Contribution: € 177 487

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Activity type
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EU Contribution
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