

WELCOME

CEDR Transnational Road Research Programme

Call 2012 TRAFFIC NOISE



End-of-programme event
Hamburg
8/9 September 2015

Program Day 2

9.00 An NRA approach to utilizing outputs from the 2012
Noise Research Call? *Ian Holmes*

9.45 Introduction to the workshop session -*Vincent O'Malley*

10.00 Coffee/tea Break

10.30 Workshop sessions and preparation of workshop results

12.00 Break

12.15 Workshops results and closing remarks - *Vincent
O'Malley*

Workshop Questions

1. How do the findings of the presented projects reflect the current best practice in the field of road traffic noise?
2. What is the potential for the implementation of the findings of the four projects across member states?
3. What are the synergies between the findings of the projects?
4. Are the projects offering a basis for new meaningful research and demonstration projects?

Workshop 1 Main Hall

QUESTIM: Quietness and economics stimulate infrastructure management



Consortium Leader: Gijsjan van Blokland, M+P, Netherlands

Consortium members: TRL, UK; Muller-BBM, DE; Aalto, FI

Start: Jan 2013 Duration: 18 months

Project Manager: Barbara Vanhooreweder

Website: www.questim.org

ON-AIR: Optimised noise assessment and management guidance for National Roads

Consortium Leader: Hans Bendtsen, DRD, Denmark

Consortium members: Institute of Transport Economics, NO;
Lärmkontor, DE

Start: Nov 2013 Duration: 24 months

Project Manager: Wolfram Bartolomaeus, Germany

Website: <http://www.on-air.no/>

Workshop 2 Small Room

FOREVER: Future operational impacts of Electric Vehicles on national European Roads

Consortium Leader: Phil Morgan, TRL, UK

Consortium members: AIT,AT; Ifsttar,FR; TCD,IE; UoBath,UK

Start: Jan 2013 Duration: 24 months

Project Manager: Ian Holmes, UK

Website: <http://forever.fehrl.org/>



DISTANCE: Developing innovative solutions for traffic noise control in Europe

Consortium Leader: Luc Goubert, BRRC, Belgium

Consortium members: SINTEF; TRL,UK; ANAS, Italy

Start: Oct 2013 Duration: 22 months

Project Manager: Helena Gabriella Axelsson, Norway

Website: <http://distanceproject.eu/>



Outcomes

Workshop 1



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1. How do the findings of the presented projects reflect the current best practice in the field of road traffic noise?
 - i. **Performance of LNPs in Switzerland and Sweden – QUESTIM to investigate**
 - ii. **Cause of reducing performance – Need for research**
 - iii. **Performance on installation**
 - iv. **Dependence on installation**

2. What is the potential for the implementation of the findings of the four projects across member states?

I. Performance specification

I. How to measure performance

II. Monitoring

III. How to implement a ‘Guarantee’

IV. Implementing a ‘Bonus’ : 1,2,5 years of performance

II. Guidance on implementation at:

I. Planning stage

II. Preliminary design

III. Detailed design (bridge joints)

IV. Construction

V. Operation

VI. Maintenance

III. Preparation of a Product Standard

I. Characterisation of performance

2. What is the potential for the implementation of the findings of the four projects across member states?

i. Checklist for implementation

i. Taking account of different conditions

ii. Checklist of Do's and Don't's

ii. Guidance on Procurement

i. Green Procurement

ii. Tendering procedure e.g. Lean procurement

iii. Guidance on Life Cycle performance

i. Timescale is important – when comparing LNPs vs Barriers

3. What are the synergies between the findings of the projects?

- I. FOREVER PROJECT and prediction of future traffic scenarios**
- II. Use of diffractors (Research project – Netherlands)**
- III. Environmental Noise Directive (Maps and Action Plans)**
 - I. Planning (ON-AIR)**
 - II. CNOSSOS-EU (DISTANCE)**
- IV. Use of ITS (e.g. speed)**
- V. Implementation of secondary uses**
- VI. ON-AIR guidelines to include methods developed by QUESTIM**
 - I. QUESTIM and ON-AIR Barrier inspections**
- VII. Include soundproofing solutions**

4. Are the projects offering a basis for new meaningful research and demonstration projects?

- I. Noise diffractors**
- II. Energy devices in acoustic barriers**
 - I. PV and transparent barriers**
- III. Physics behind ageing**
- IV. Large scale demonstration project**
 - I. Different barriers**
 - II. Different surfaces**
 - III. Effects?**
- V. Communication to**
 - I. Decision makers**
 - II. Public**
- VI. Interaction between**
 - I. Different tyres**
 - II. Different surfaces**
- VII. Sustainability**

Outcomes

Workshop 2



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1. ***How do the findings of the presented projects reflect the current best practice in the field of road traffic noise?***
 - ***BENEFITS OF ECARS***
 - ***Solving problems existing vs. new roads***
 - ***Methodology for tyre noise is not representative***
 - ***People need to get out of the cars***
 - ***Need to change peoples perception of noise***
 - ***Links between policy and planning for the implementation of noise measures***
 - ***Business case to convince policy makers***
 - ***Bring people to noise and noise to people***
 - ***Hydrogen cars***

2. What is the potential for the implementation of the findings of the four projects across member states?

- ***CNOSSOS need to be opened for innovative solutions***
- ***Action plans need to be linked to the technology***
- ***Silent road surfaces***
- ***Sticking to what we know***
- ***Knowledge among municipality – information sharing***
- ***Balance between innovation and unique schemes***
- ***Who drives innovation?***
- ***Joined up thinking***

3. What is the potential for the implementation of the findings of the four projects across member states?

- ***Durability of pavement***
- ***CNOSSOS could be good example how to integrate innovative solutions in noise modeling***
- ***Alignment with national method***

4. Are the projects offering a basis for new meaningful research and demonstration projects

- ***Database of all innovative solutions, with the updating and audio examples!***
- ***Living noise laboratory***
- ***Bicycle highways***