

Informal document No. **GRB-45-4**
(45th GRB, 20-22 February 2007
agenda item 8.1.)

Noise abatement: costs and benefits

Transmitted by the expert from the Netherlands



NL Institute for Health and Environment

HEALTH

Noise second issue on their health damage ranking
Loss of healthy life years: 30.000 each year

Source reduction is health improvement.
Health improvement means more working days and
less costs for health care:

Benefit 150-500 mln euro each year.



NL Institute for Health and Environment (2)

Noise: reduction to allowable levels

Financial Benefit:

ESTATE VALUE along roads : 7,3 bln euro

SPATIAL PLANNING : 1.7 bln euro

(Suitable for building homes)



NL Noise Innovation Program

Along our highway system

Each dB source reduction = 100 mln euro less
for barriers and isolation.

Along regional and city roads

I only know it's much more than 100 mln



Are we unique?

No: remember the UK studies presented here

No: take a look at the FEHRL study



FEHRL study, conclusions

FEHRL's conclusions are:

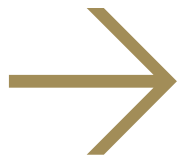
1. The present limits will achieve little if any environmental benefit. (This includes a slight tightening of the limits which is foreseen in the current directive).
2. Tighter limits do not imply less safety; no such relationship was found.
3. Less noise production does not imply more energy consumption (rolling resistance).



FEHRL study, conclusions (2)

4. Noise limit values for tyres can be reduced by 1 – 5 dB(A) (without any consequences for safety or energy consumption).
5. Abolish allowances (-1,5 dB(A))
6. Noise emission by road traffic can be reduced by 2 – 3 dB(A)

- 7. The estimated financial benefits for the European public lies within the range of 48 to 123 billion euros.**



Costs

Which costs?

We tested hundreds of tyres for our national stimulation program.

No relationship between noise and cost was found



Thank You