



Research and Strategies for Less Noise in Europe

Conference
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The PREDIT

Program of research, experimentation and
innovation in land transport

The Predit

Emmanuel THIBIER

Acoustician

Transport & Mobility Department

ADEME – French Agency for Environment and Energy Managing

Involved in the Predit management

The Predit

The Predit is the French national organization to promote research initiatives and experimentations in land transport.

Predit 1: 1990-1994

Predit 2: 1996-2000

Predit 3: 2002-2007

Final issue in Paris 5th to 7th of may 2008

The Predit network

The Predit is divided into 6 domains and made of 11 operational groups (GO) :

- Mobility
- Safety
- Goods
- Energy & Environment = OG7 & OG8 → Noise
- Technology
- Politics

OG7 : energetic & environmental impact

OG8 : green vehicles

The Predit network

OG7 : energetic & environmental impact

- Greenhouse gas
- Air pollution
- Biological & landscapes
- **NOISE**

OG8 : green vehicles

- Engine internal combustion
- Electric & electronic motorization
- **NOISE**

Predit

290 000 000 euro for 1 400 research projects

- Oséo 26,2%
- ANR (2005-2006) 14,1%
- MTETM 14,1%
- Ademe 12,8%
- Plan VPE 11,4%
- Minefi et FCE 11,7%
- MR (2002-2004) 7,9%
- Medd 1,7%

total

290 M€

Energy & environnement = 48% of the Predit

Noise in the Predit

NOISE in OG7 : energetic & environmental impact

3 specific calls for proposals

2003 – 2005 – 2007

10 + 5 + 3 (+?) = 18 proposals selected

1,8 + 1,0 + 0,5 = 3,3 M€

+ 4 free proposals (0,2) = 3,5 M€

A total of 18 M€ for the OG7

Noise in the Predit

NOISE in OG7

The mains items develop in Predit 3 :

Perception & annoyance (sound quality)

Geographical representation of noise (noise mapping)

Sound propagation

Tools for action plans

Noise and health

Railway noise

Noise in the Predit

The titles of 15 proposals 2003 - 2005

- Relative Influence of Physical Parameters for Long-Range Propagation (EDF)
- Relevance of the urban sound descriptors : application for the transport noise during the sensitive periods (LAM)
- Territory and living into the noise : new method (UP12))
- The perception of the sound quality of urban environments : a survey in France (Paris) and Greece (Kalamaria) (LAPS)
- General system providing an efficient representation of the acoustic environment i.e. in respect to what citizens perceive and describe (LASA)
- Architectural morphology as an important factor for the prediction of soundscapes and noise propagation in urban areas (LCPC)
- The loudness of impulsive sounds and trains of impulses (GENESIS)
- New environmental assessments to help acceptability of the main impact (UP12)
- SONVERT : Noise vehicle and traffic simulation (Faurecia)
- Quality of Noise barrier across time (IDETEC)
- Noise vibrations & perception of tramways (SerdB)
- Dynamic estimation of noise in urban area (INRETS)
- RAPS : Railway noise (and other modes) Annoyance Performance Sleep DEUFRAKO (SNCF)
- Urban noise exposure and performance of school children (U. Besançon)
- Urbanism procedures and the SRU law (UP12)

Noise in the Predit

NOISE in OG8 : green vehicles

5 global calls for proposals including noise
2003 - 2005 - 2006

6 + 6 + 1 = 13 proposals selected

2,7 + 3,5 + 1,3 = 7,5 M€

+ 3 free proposals (1 M€) = 8,5 M€

A total of 125 M€ for the OG8

The titles of 13 proposals 2003 – 2005 – 2006

- POP'ARN
- MIMOSA
- LUT (1)
- LUT (truick)
- PROSODIE
- REBECCA
- MESOPTI
- Tramway
- ODIN
- P2RN - DEUKRAKO
- CRISFIS
- MAEVA
- PRE-CONNAISSANCES

Predit

If you want more details :

<http://www.predit.prd.fr>

<http://www.ademe.fr>

emmanuel.thibier@ademe.fr

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Thank you !