

















Priorities in the French PREDIT research program



















The French PREDIT program

- Energy & environment
- Focus on noise & vibration
- Including railway noise and vibrations with focus on freight transport
- Call for propositions about surface transport noise: 2005-2010
- Priorities on 5 topics



















5 topics (1/2)

Topic n°1: Source noise: characterization and reduction of the vehicle's noise: engine, muffler, rolling noise, breaking noise

> STARDAMP + (PROSODIE)

Topic n°2: The environment of vehicles: global modelling, sound propagation, noise barriers,

> IMPACT



















5 topics (2/2)

Topic n°3: Perceived noise and Sound

quality: noise landscape

Topic n°4: Annoyance and health / better understand the noise effects

>RAPS

Topic n°5: Noise mapping



















Global noise strategy

- The global noise strategy carried on by PREDIT within the ADEME
- From sources to the human well being, the 5 topics cover the full range of noise strategy
- Aiming to fight against Noise



















ADEME & PREDIT

- The French Environment and Energy Management Agency (ADEME) develop technical and organisational options to reduce the pressure that humans exert on their surroundings
- The several research programs aim to acquire the knowledge needed to conceive and implement effective public policies in the areas of energy management, renewable energy, waste, air quality, soils and noise pollution.
- The specific research and development program against noise pollution is carried on inside the PREDIT program
- Financial support and technical advise of ADEME to the research projects

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Focus on freight traffic noise

- At source (topic n°1):
 - Work in progress on composite brake blocs (UIC)
 - STARDAMP (FUI): for retrofit or in addition to results of composite brake block program
 - PROSODIE : electric source of noise
 - Ground born vibration: VIBSOLFRET
- Propagation/ barriers (topic n°2): IMPACT
- Annoyance and health effects (topic n°4): RAPS



















Thank you for your attention!

Pierre-Etienne GAUTIER (SNCF) Emmanuel THIBIER (ADEME)

München

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